

## PETER H. BOLING

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### Director, Architect, Evangelist, Ruby Expert and Certified Barista

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Director, architect, evangelist, team leader, mentor, rubyist, and builder of web applications great and small, since 2004; system administrator since 1997. Passionate about efficiency, discovering new best practices, and process improvement.

Excel at data analysis, task automation, testing, style guides, best practices, API design, benchmarking, and Domain Driven Design. While Ruby is my core competency, I've done extensive javascript development, primarily between 2010 and 2016. Familiar with NodeJS, Stimulus, React, Angular, Ember, Backbone, and now I <3 Svelte.

Led PHP-to-Rails migrations @ [aSmallWorld](#) (2008-9) and [BibleGateway](#) (2009-10).

Solutions for finance, insurance, healthcare, social networking, local and federal government, NGOs, experimental research, B2B, fashion, gaming, publishing, recruiting, dating, advertising, food service and e-commerce sectors. Specialize in migrating legacy systems to modern architectures.

FLOSS Leader and Advocate:

- <http://github.com/pboling>
- <http://rubygems.org/profiles/pboling>

Polyglot: English, Spanish, and Portuguese; learning Bahasa Indonesia.

Specialties: Agile Web Development, Deployment, Optimization, Refactoring, BDD, DDD, Testing, Training

Dedicated to improving the condition of human life by automation.

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### Leadership & Management

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**Director of Engineering**, Riviera Partners; 12 engineers, 5 direct reports; 2021 - present

**Executive Director**, National Progressive Party; manage all volunteer efforts, policy and procedure, helped launch the Washington Progressive Party; 2020 - present

**Researcher and Co-founder**, Word Tree Foundation; non-profit researching ways to scientifically analyze, compare, and derive meaningful data from literary works; first Big Data analysis of its kind; 2013 - present

**Deputy Director of Outreach**, National Progressive Party; established relationships with other organizations, went on podcasts, grew social media presence 10x in three months; 2020

**CTO and Co-founder**, Acquaintable; disruptive start-up in online dating; Managed team of 5, including designers, frontend, and backend engineers; 2012 - 2013 (Acquired)

**Technical Advisor**, Karuna Health; Architecture, mentoring, planning; 2018 - 2020 (Acquired)

**First Employee & Lead Engineer**, BloombergBlack, personal wealth management tool for

Bloomberg LP; Interviewed, hired, mentored team of 15 engineers; 2010 to 2012  
**Web Team Lead**, Invoice2go; Managed 6 developers, and 1 QA Engineer; 2016 - 2017  
**Automation Team Lead**, Invoice2go; Managed 1 developer, coordinated horizontally; 2016 - 2017  
**Team Lead, Sagebit**; Mentored 5 recent graduate programmers; 2008-2009  
**FLOSS Project Lead**, omniauth-identity ruby gem; 2020 - present  
**FLOSS Project Lead**, oauth2 ruby gem; 2017 - present  
**FLOSS Project Lead**, dynamoid ruby gem; 2016 - present  
**FLOSS Project Lead**, flag\_shih\_tzu ruby gem; 2012 - present, and many more.

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## Skills

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App: Ruby, Rails, RSpec, Svelte, ES2016, Cypress, GraphQL, JSONapi, Protobuf  
Database: PostgreSQL, Dynamo, Neo4j, ES, Mongo, Redis, MySQL, Oracle, Maria  
Servers: Puma, nginx, unicorn, passenger, mongrel, lighttpd, mod\_ruby  
System: Bash, monitoring, scheduling, backup, security, debian packaging  
Project: Jira, JX, CircleCI, TravisCI, TeamCity, Github, Pivotal, Bitbucket

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## Recent Roles

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### Director of Engineering

Stack - Rails 5.2, Ruby 2.5=>2.6=>2.7, RSpec, PostgreSQL, SQS, S3, ES, Redis, Memcached, Sidekiq, Kubernetes, Hasura, SchemaHero, GraphQL, CQRS+ES, Svelte, JIRA, Github  
Riviera Partners February 2020 - present

<https://rivierapartners.com>

- In addition to being director of engineering, I lead the backend team. We build tools that support Riviera's business. My team focuses on infrastructure as code, APIs, services, and data processing
- We are leveraging CQRS+ES (event sourcing), and GitOps. I maintain the legacy Grape/Rails app, and work on the Hasura Read Model, KNative Eventing, GraphQL APIs, Data Models, Ingestors, Denormalizers (Projections), and Command APIs, in the new NodeJS CQRS+ES distributed system
- We use Event Storming to determine what we need to build because it maps perfectly to CQRS+ES, and abides the principles of Domain Driven Design

### Executive Director

Stack - PHP 7.4, WordPress, CiviCRM, Discord, Telegram, Facebook, Twitter, Instagram,  
National Progressive Party June 2020 - present

<https://nationalprogressiveparty.org>

- Appointed by Executive Board of NPP
- Manage the volunteer efforts of the organization. Determine or build the technology, tools, and platforms used by volunteers and members
- Plan backup and recovery protocols for technical services. Develop membership and volunteer policies and procedures
- Helped draft NPP's bylaws.
- Advised on organizational development, drafting of bylaws, of the [Washington Progressive Party](#).
- First role was as a volunteer Deputy Director of Outreach (March, 2020 - a volunteer position)

## Technical Advisor

Stack - Rails 5.2, Ruby 2.5=>2.6, RSpec, PostgreSQL, SQS, Protobuf, S3, ES, Redis, Memcached, Sidekiq, Aptible, Github

Karuna Health

November 2018 - April 2020

<https://www.facebook.com/meetkarunahealth/>

- Advising on technology and hiring decisions at Karuna Health
- Built the email gateway, much of the notification services, and helped plan the architecture of the system
- Created automated tools that correct many forms of data corruption
- Left when acquired by [Commure, Inc](#)

## Solution Architect

Stack - Rails 5.2, Ruby 2.6, RSpec, PostgreSQL, S3, ES, Redis, Kafka, Sidekiq, Github

MINDBODY, Inc

November 2019 - February 2020

<https://www.mindbodyonline.com/>

- Architecture design for new APIs, interfaces, data storage
- Process design for software development lifecycle
- SME for services utilized by all teams, and projects within Marketing Products

## Senior Staff Architect (6 month contract, extended to 12 months)

Stack - Rails 5.2, Ruby 2.4=>2.6, React v16, RSpec, PostgreSQL, S3, ES, Redis, Memcached, Sidekiq, Github

Gainbridge.life, Relay Rewards, Delaware Life, Group1001 November 2018 - November 2019

<https://gainbridge.life>, <https://www.group1001.com>

- Develop Group1001 corporate homepage (Rails & Contentful) <https://www.group1001.com>
- Design and implement all analytics solutions and integrations for <https://gainbridge.life>
- Developing front end (React v16 & Redux) on <https://gainbridge.life>
- Built E2E specs in Cypress for <https://gainbridge.life>
- Full stack support of <https://relayrewards.com/> (will probably be shut down soon)
  - Implementation of all new features
  - Built new redesigned landing page with React Hooks (never released)
- JIRA administration & process development

## Principal Systems Architect

Stack - Rails 4.2, Ruby 2.0=>2.3, RSpec, PostgreSQL, DynamoDB, S3, ES, Mongo, Redis, Memcached, Resque, DigitalOcean, Heroku, DataDog, Cloudwatch, NewRelic, Salesforce, Jira, Bitbucket, Ubuntu

Intricately

May 2016 - November 2018

<http://www.intricately.com>

- Created time-series data collection & analytics; Generates events to track change on internet
- Scaling systems and creating devops tools to better utilize infrastructure
- Advanced math to transform non-scalar data from AWS Alexa into a scalar digest
- Monitor, log, benchmark, and automate the internet monitoring robots
- Build data pipelines for enterprise customers exposing the internet sliced in different ways

## Principal Systems Architect

Stack - Rails 4.2=>5.2, Ruby 2.3=>2.5, RSpec, PostgreSQL, Jira, Ubuntu, OPC DA integrations.

Bolt Threads

Sep 2017 - May 2018

<https://boltthreads.com/>

- Maintenance of a legacy, custom, in-house built, Lab Information Management System.
- Analysis of potential replacement third party LIMS systems.
- Interviewed candidates for Software Engineering leadership team (VP, Director, Sys Admins)
- Integration of Windows-based OPC DA services with LIMS via data sampling mechanisms
- Translate garment designs to instrumentation for a Stoll industrial knitting machine
- Primary JIRA administrator for all company projects
- Participated in Leadership Fundamentals training
- Left when the in-house LIMS system was replaced with off-the-shelf software.

## Principal Engineer

### Automation Team Lead

### Web Team Lead

Stack - Rails 4.2, Ruby 2.3, RSpec, AngularJS 1.4, PostgreSQL, S3, ElasticSearch, Redis, Memcached, Sidekiq, CircleCI, Jenkins, Github Enterprise, ZenDesk, NewRelic

Invoice2Go

Jan 2016 - Feb 2017

<http://www.invoice2go.com>

- Lead the web team in developing a revamped web app at <https://web.invoice.2go.com/>
- Laid the groundwork for new service architecture, implementation and continuous integration
- Designing JIRA process, workflows and screens, and integration with ZenDesk
- Designing and implementing git branching strategy and supporting toolchain
- Implementing sandboxed dev env and tiered deployed environments
- Design and implement feature flags allowing synchronized feature release across clients
- Engineering Leadership role in Jakarta office

## Senior Engineer

Stack - Rails 3.2, Ruby 2.0=>2.1, RSpec, React, EmberCLI, Haml, Slim, SASS, PostgreSQL, S3, Redis, Memcached, Sidekiq, TravisCI, Github, Salesforce, NewRelic, Heroku

Trumaker & Co

Apr 2014 - Mar 2016

<http://www.trumaker.com>

- Rebuilding architecture of entire tech stack
- Extracting front-end parts to ember-cli and react thin clients
- Building structured, authenticated, performant APIs, utilizing versioning and caching
- Modernizing versions of Ruby, Rails, and many critical gems
- Implementing backend to support launches of new product lines (blazers, ties, belts, pants, sweaters, tees, etc), fulfillment processes, factories, and shipping methods
- Designed and created a fully spec'd 12-state Lead CRM tool
- Integrated Salesforce with internal Lead CRM via my celluloid-io-pg-listener gem
- Built a commissioned sales attribution framework that supports point-in-time history
- Fixed the factory pattern and rewrote the spec suite, adding thousands of additional tests
- Setup new deployed environments, created Thor deployment tool for automation of the many deployment related sub-tasks

## Senior Staff Architect, Services (9 month contract, extended)

Stack - Ruby 1.8=>2.1, CGI, FastCGI, Mail gem, RSpec, Oracle 11g, rbenv, bash, daemons, RedHat linux

Church Pension Group

Aug 2013 – Oct 2014

<http://cpg.org> (among others)

- Forensic analysis of 5 year old ruby service layer
- Upgrade from Ruby 1.8.7 to 2.0, then 2.1
- Created ruby service APIs to support many varied clients, & regression test suite
- Implement account lock and token expiry security measures & automated enforcement
- Upgrade daemon infrastructure and trading systems, improve software stack / `make` system
- 10x performance enhancement of internal services: former 20 req/s is now at least 200 req/s when the bottleneck changes to external resources.

## Co-founder, Chief Technology Officer

Stack - Rails 3.2, JRuby 1.7, Ruby 1.9=>2.0, RSpec, RequireJS, BackboneJS, Foundation, Slim, SASS, Neo4j, PostgreSQL, S3, Redis, Memcached, Sidekiq, Unicorn, Puma, TravisCI, Github, Librato Metrics, NewRelic, Heroku

Acquaintable.com – Socially curated dating through FoF Jun 2012 – Aug 2013

Acquired by LikeBright, now Reveal (Microsoft Ventures backed)

- Built the entire site & made all tech decisions
- Advised on all product and design decisions
- Created matching engine with Neo4j + PostgreSQL data analysis algorithms
- Mobile first, responsive design, with intuitive, touch-enabled mobile interface
- Designed to provide an immediate experience to each new user
- One page app design, in preparation for iPhone app
- UX tool-chain: backbone-marionette, handlebars, RequireJS, slim, SASS, foundation
- Accepted into Entrepreneurs Roundtable Accelerator Winter 2013 class (ERA - NYC)
- Fully automated and self-correcting, no intervention required for 4 months.
- Successful exit via acquisition!

## Senior Rubyist & Lead Developer

Stack - Rails 2.3, 3.0, 3.1 & 3.2, Ruby 1.8=>1.9, Grape, RSpec, RequireJS, Foundation, Slim, SASS, SOAP, Unicorn, Puma, Memcached, TeamCity, Git

Bloomberg Black – now dissolved Aug 2010 – Nov 2012

- 1<sup>st</sup> Employee, and lead developer of Bloomberg Black, a personal wealth management startup
- Interviewed and built a team of 15 engineers
- I built internal gems:
  - VCR extensions: improved automated management / recording of soap interactions allows for isolated development, recorded sessions reduce dependency on service tier
  - Javascript: flyout menus, internally tabbed ajax pages, scrollspy, breadcrumbs
  - Spec suite with thousands of tests to enforce style guide, validate ruby namespace against collisions
- SOAP services interface, generators for SOAP models and test fixtures; created version dependency resolution between Ruby layer and Java services
- Rack middleware for fast custom logging => Splunk, 10ms per request improvement
- Designed project structure: ajax widgets built out of reusable RequireJS modules, cells for componentized features, presenters for single instance variable, and logic free views
- Spec infrastructure: created custom rspec matchers, acceptance tests, JS unit tests
- CMS presentation code for the dynamic content on the site with all content available via static route or ajax widgets
- Built the CMS backend for the content entry in the 100% javascript Rapid IDE
- Maintained platform interoperability – Windows & RedHat & MacOS

## Team Lead, Senior Engineer (contract)

Stack - Rails 2.0, 2.1, 2.2, 2.3, Makandra Rails LTS, Ruby 1.8=>2.2, RSpec, Haml, CSS, MySQL, Memcached, Mongrel, Unicorn, TravisCI, Github, Redmine, NewRelic

Timeperks.com – Order meals online from favorite local restaurants      Sep 2008 – Aug 2014

- Mentored junior developers, and reviewed code
- Built some of the more complex parts of the system, e.g. CX ghosting/masquerade tool
- Created data reporting features, utilizes my csv\_pirate gem.
- Did all original, three-way, marketplace payment integration with Amazon FPS, and became maintainer of remit gem

## Partner & Lead Developer (Ruby on Rails)

Stack - Rails 1.2, 2.0, 2.1, 2.2, 2.3, 3.0, 3.1, Ruby 1.8=>1.9, RSpec, Erb, Haml, CSS, jQuery, MySQL, Mongrel, Unicorn, Memcached, Github, Redmine, Debian, Ubuntu

Sagebit, LLC - now dissolved      Jun 2007 – Dec 2011

- Developed a Ruby on Rails based media storage and retrieval engine
- Development, testing, deployment, and refactoring internal projects, including:
  - CartaBuzz – Find things to do near you (many third party APIs)
  - MonkeyStub – Get tickets to events fast (many third party APIs)
  - YetiMail – Snopes for Chain Letters / Spam / Phishing (web scraping; a fuzzy phrase analysis engine; AI)
- Trained 5 new hires in Ruby, Rails, REST, and stateless programming
- Likewise with all Rails-based client projects, including: social networks, nonprofits, data warehousing, and commercial sites
- Biggest contract was with aSmallWorld, <http://asmallworld.com>:
  - Led team of 10 developers converting old PHP site to Rails
  - Design & setup of load balanced 32 server production stack
  - Wrote forums, photo sharing, friend network presentation engine
  - Designed polymorphic basis for CMS in the new site
  - Moved millions of rows of data from the legacy tables to new rails friendly table designs and data models, and optimized SQL queries, and code structure for negligible downtime during PHP -> Rails migration
  - Optimized to handle 2MM uniques per month, and 300K page views per day
  - Designed and implemented page and user tracking
  - Built advertising minisite engine for Estee Lauder and Mercedes-Mclaren campaigns

## Senior Ruby on Rails Developer (6 month contract, extended)

Stack - Rails 2.3, Ruby 1.9, RSpec, Memcached, EPub

Zondervan (Harper-Collins)

Dec 2009 – Jul 2010

<http://BibleGateway.com>

- Developed Google-inspired search engine for POC build of BibleGateway.com
  - [http://github.com/pboling/awesome\\_search](http://github.com/pboling/awesome_search)
- Created dynamic tools used to import hundreds of publications into the system:
  - improve quality of data, metadata, and data linkages
  - incrementally index publications with Solr / Sunspot
- Implemented advanced exception handling and reporting
- Developed parser to transform raw text into HTML decorated with footnotes and many

publishing formatting requirements

## Founder & System Architect

Stack: Rails 1.2, 2.0, 2.1, 2.2, 2.3, Ruby 1.8=>1.9, MySQL, Memcached, Redis, Redmine, DelayedJob, jQuery, AJAX, CSS, Debian, Ubuntu, Bash

9thBit, LLC (Rails Consulting)

Mar 2007 – Jul 2010

- Built a full-featured credit union web application (offline)
  - Integrations with several payment gateways and money transfer services
  - Clients could transfer money from other institutions
  - Clients could make online withdrawals to other institutions
  - Advanced fraud detection and prevention
  - Admin backend systems for credit union staff to use
  - Interest calculation; Nightly audits and reconciliation on accounts
  - Document handling; Account statements, and ledgers
  - Notification system and support system, with knowledge base
  - All devops work, security hardening, server provisioning, backups, etc
  - \$10 million+ in deposits and wire transfers
  - Thousands of accounts and users supported
- Built a letter writing, printing, and mailing service (offline)
  - Physical letters as a service; Sent to government officials, local, state, national
  - Geolocates users to determine the correct legislators

## Senior Developer, System Admin, Ruby on Rails (contract)

Stack - Rails 2.1, 2.2 & 2.3, Ruby 1.8=>1.9, RSpec, Memcached

Neighborino, LLC

Aug 2008 – Aug 2010

<http://www.neighborino.com/> & <http://demo.neighborino.com/>

- Photo sharing features, form handling, messaging, advertising services, calendaring.
- Created a mailer daemon system to fix timeouts on the website when sending emails.

## Systems Analyst / Developer (Ruby on Rails, XSL, C#, Shell)

Stack - Rails 1.1 & 1.2, Ruby 1.8, Oracle 8i, 9i & 10g, jQuery, AJAX, CSS, Redhat Linux, Windows IIS, XML, XSLT, Google Search Appliance

Legislative Services Agency (LSA)

Apr 2006 – June 2007

<http://www.in.gov/legislative/iac/irtoc.htm>

- Built new Indiana Register website which publishes all official legislative documents:
  - Running Tomcat & Cocoon, written in XML and XSL
  - Created search feature backed by a Google Mini appliance
  - Began work on Section 508 compliance (accessibility)
  - Developed batch and shell scripts for automatic publishing of official documents
  - Designed the layout, and created the CSS
- Created Indiana General Assembly's internal call center application running the House, Senate, and LSA call centers.
  - Possibly world's first to run Rails on Windows Server 2003; mongrel\_cluster & Oracle 10g backend, IIS6 frontend; Worked directly with Microsoft's IIS team
  - AJAX address based lookup of senate and house districts for constituents, with issue tracking, and daily summary email to legislators
  - Possibly also world's first Cisco IPCC & PBX integration with a Rails application

## Ruby on Rails Developer & Partner

Stack: Rails 0.14, 1.0, 1.1 & 1.2, Ruby 1.8, Nginx, Mongrel Cluster, Lighttpd, MySQL, Memcached, Redmine, jQuery, AJAX, CSS, Debian, Ubuntu, Bash

PanEther, LLC (Rails Consulting)

Dec 2005 – Mar 2007

- Built a fantasy football website for a client
- Built a credit union web application, and administrative tools, for a client
- Built a government advocacy web application for a client

## Linux System Administrator & Developer (Rails, PHP, Java, Perl, Scheme, Shell)

Stack: Rails 0.10, 0.11, 0.12, 0.13, 0.14, 1.0 & 1.1, Ruby 1.8, Mongrel, MySQL, Memcached, Bugzilla, Bash

Optivel, Inc

Dec 2004 – April 2006

- Primary developer on first-ever enterprise-grade, Rails-based, ticketing system
- Built a time tracking app in Rails;
- Built an “AirBnB for Airplanes” in PhP
- Managed a Debian apt repository mirror
- Built and maintained internal debian packages handling configuration synchronization, key rotation, and automated backups.

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## Open source activism - Hundreds of Millions of RubyGem downloads since 2009

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<http://github.com/pboling>

<http://rubygems.org/profiles/pboling>

<http://github-awards.com/users/search?login=pboling>

<https://coderwall.com/pboling>

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## Some gems I hack on

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*oauth2* – A Ruby wrapper for the OAuth 2.0 protocol: Project Lead & Maintainer since Dec 2017

<https://github.com/oauth-xx/oauth2>

*debug\_logging* – Unobtrusive debug logging for Ruby without the litter: Author, Mar 2017

[https://github.com/pboling/debug\\_logging](https://github.com/pboling/debug_logging)

*dynamoid* – AWS DynamoDB ORM for Ruby: Maintainer since May 2016

<https://github.com/Dynamoid/Dynamoid>

*gem\_bench* – static gemfile analysis: Author, Apr 2013

[https://github.com/pboling/gem\\_bench](https://github.com/pboling/gem_bench)

*flag\_shih\_tzu* – Bitfields for ActiveRecord: Maintainer since Nov 2012

[https://github.com/pboling/flag\\_shih\\_tzu](https://github.com/pboling/flag_shih_tzu)

*sanitize\_email* – Tools for testing email; Safety belt for using production data: Author Oct 2008

[https://github.com/pboling/sanitize\\_email](https://github.com/pboling/sanitize_email)



And *many* more... <http://rubygems.org/profiles/pboling>

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## Volunteer Work

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Deputy Director of Outreach, National Progressive Party, 2020. Established relationships with United Left, Rose Coalition, and began a conversation with the Oregon Progressive Party, along with many other organizations and candidates. Grew the Discord server membership 10x, and the Twitter following 10x in three months.

Since 2013 I have been helping refugees from Ivory Coast and Liberian civil wars re-establish themselves. Initially I rent apartments for refugees, purchase land, build cinder block homes, help them repatriate, find gainful employment, and build sufficiency by farming and husbandry. Refugees who cannot repatriate I help relocate to permanent new lives through UN programs, mostly to Canada and Australia. November 2015 my efforts became a registered Liberian NGO called Hope For Tomorrow. Each year I directly assist hundreds of refugees to repatriate or relocate.

Co-founder of the WordTree Foundation, <http://wordtree.org>. Working on algorithms to enable scientific textual analysis (e.g. n-gram) of literary works to shed light on provenance, and external influence, especially for works written prior to the modern age, which will shed light on how human thought has evolved. All code is open source: <http://github.com/wordtreefoundation>

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## Human Language Fluency

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English (native)	Spanish (fluent)	Portuguese (fluent)
Indonesian (conversational)		

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## Honors

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Dean's Honor List for College of Sciences and Humanities, Ball State University,  
Spring '98 and Spring '99 (Computer Science)  
Indiana Core 40 Honors Diploma, Muncie Central High School  
Eagle Scout\* - Boy Scouts of America  
(\*As a minor; before I knew of the discriminatory nature of the organization)

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## Education

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Ball State University, CS\*, Science & Humanities, Muncie, IN 1997 – 1999  
Purdue University, MIS\*, Science & Eng. Tech., Lafayette, IN 2002 – 2004  
Ball State University, CS\*, Science & Humanities, Muncie, IN 2004 – 2005  
Purdue University, CIT\*, Engineering Technology, Indpls, IN 2005 – 2007  
\* Worked full-time, no debt, through college; flat-top roofer, tech support, sys-admin, web developer. I am eight classes short of a degree, and I have **no** intention of completing it.

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## **Certifications**

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Barista, Certified & Licensed in Australia by CBD College, Sydney, RTO# 91399

\* SITHFAB005 - Prepare and serve espresso coffee

\* SITXFSA001 - Use hygienic practices for food safety