

PETER H BOLING

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🔗 Portfolio 📁 Gems 🏠 Hub 🧪 Lab 🏠 Hut 📅 Calendly

Director, team leader, mentor, linux system admin, FLOSS advocate, barista, student, and builder of web applications great and small for 25 years. Passionate about testing, efficiency, learning best practices, and improving the human condition by automation.

Recognized by [Github in July 2022](#) as one of 904 developers whose open source code their platform relies on. Engineered solutions for nearly every sector of industry. Specialize in migrating legacy systems to modern architecture utilizing principles of BDD, and DDD.

Built world's first enterprise Rails app running on Windows Server 2k3 & IIS6 (2006, [ref1](#), [ref2](#)). Led massive PHP-to-Rails migrations @ [aSmallWorld](#) (2008-9) and [BibleGateway](#) (2009-10).

Favorite 🥰 is Event Storming, CQRS, Rails, SvelteKit, CI/CD, GitOps.

Languages: 🇺🇸 English 🇪🇸 Spanish (fluent) 🇧🇷 Portuguese (fluent) 🇮🇩 Indonesian (convo)

Legend: 🦊 = Additional role as primary JIRA admin (5x), 🏠 = Received internal promotion (6x)

Leadership & Management Summary

Director of Engineering, [Riviera Partners](#); 20 engineers, 7 direct reports; 2020 - present
Executive Director, National Progressive Party; helped launch [WAPP](#); 2020 - 2022
Board Member (ex-officio), National Progressive Party; 2020 - 2022
Deputy Director of Outreach, National Progressive Party; grew social media 10x in 3mo; 2020
Technical Advisor, [Karuna Health](#); architecture, mentoring, planning; 2018 - 2020 (Acquired)
Leadership Fundamentals, [Bolt Threads](#); intensive training; 2017 - 2018
Web Team Lead, [Invoice2go](#); managed 6 devs, & 1 QA Engineer; 2016 - 2017
Automation Team Lead, [Invoice2go](#); managed 1 dev, coordinated horizontally; 2016 - 2017
CTO and Co-founder, [Acquaintable](#); online dating; managed team of 5; 2012 - 2013 (Acquired)
Co-founder, [Word Tree Foundation](#); Big Data analysis of literary provenance; 2013 - present
First Employee & Team Lead, [Bloomberg's](#) wealth mgmt tool; led team of 10; 2010 - 2012
Team Lead, [Sagebit](#); mentored 5 recent graduate programmers; 2008 - 2009

Free (Libre) Open Source Summary

Tidelift Maintainer, RubyGem & NPM Project Lead, 67+ libraries; following are widely adopted:

1. [oauth2](#) - OAuth 2 Client; *maintainer* since 2017; 123.9MM DL
2. [oauth](#) - OAuth 1 Client & Server; *maintainer* since 2021; 82.9MM DL
3. [version_gem](#) - Gemspec-compatible VERSION enhancer; *author*, 2022; 3.3MM DL
4. [dynamoid](#) - Amazon DynamoDB ORM; *maintainer* since 2016; 2.8MM DL
5. [gem_bench](#) - Gemfile static analysis; *author*, 2013; 2.8MM DL
6. [flag_shih_tzu](#) - bitfields for ActiveRecord; *maintainer* since 2012; 1.8MM DL
7. [sanitize_email](#) - email condom for Ruby server; *author*, 2009; 1.5MM DL
8. [omniauth-identity](#) - trad un/pw adapter for omniauth; *maintainer* since 2020; 1.4MM DL

Director of Engineering ~ [Riviera Partners](#) ~ Feb 2020 - present, 🐘 🏠 🏠

🍷 Rails 5.2, Ruby 2.5...2.7, RSpec, PostgreSQL, SQS, S3, ES, Sidekiq, k8, Hasura, SchemaHero, GraphQL, CQRS+ES, Svelte, JIRA, Github

- Managed back-end and devops teams. Focused on infrastructure as code and services
- Automated & templated email campaigns improving response by order of magnitude
- Utilized event storming to map business domain (Domain Driven Design)
- Maintained legacy system, while preparing data migrations to new system
- Upgraded tools, dependencies and SSL certificates, patched CVEs
- Promoted to Eng Manager, then Director of Engineering:
 - Org comprised 20 engineers among back-end, front-end, devops, DS & QA
- Wrote [service_actor_promptable](#) to assist with CLI-based system management

Tech Advisor, Principal Software Engineer ~ [Karuna Health](#) ~ Nov 2018 - Apr 2020

🍷 Rails 5.2, Ruby 2.5...2.6, RSpec, PostgreSQL, SQS, Protobuf, S3, ES, Sidekiq, Aptible, Github

- ❖ Advised on technology and hiring at Karuna Health
- ❖ Built email gateway, notification services, and helped plan architecture of system
- ❖ Implemented automation to correct data corruption
- ❖ Acquired by [Commure, Inc](#)

Principal Software Engineer ~ [9thBit LLC](#) ~ Nov 2018 - Nov 2019, 🐘

🍷 Rails 5.2, Ruby 2.4=>2.6, React v16, Redux, RSpec, PostgreSQL, S3, ES, Redis, Memcached, Sidekiq, JIRA, Github, Cypress, Contentful

- Initially 6 month contract; extended to 12 months to work on following products:
 - [Gainbridge](#), [Delaware Life](#), [Group1001](#), Relay Rewards (offline)
- Design and implement all analytics integrations
- Primary developer of all Rails-based apps (Relay Rewards & Group1001)
- Developing front end (Gainbridge, React v16), and E2E specs in Cypress

Principal Software Engineer ~ [9thBit LLC](#) ~ May 2016 - Nov 2018, 🐘

🍷 Rails 4.2, Ruby 2.0...2.3, RSpec, PostgreSQL, DynamoDB, S3, ES, Mongo, Resque, DO, DataDog, Cloudwatch, NewRelic, Salesforce, JIRA, Bitbucket

- ❖ Contract with cloud intelligence company extended many times
- ❖ Created time-series data collection & analytics; track changes to *the internet*
- ❖ Creating devops tools to better utilize infrastructure & manage costs
- ❖ Advanced math to transform non-scalar data from AWS Alexa into a scalar digest
- ❖ Designed tools to monitor, log, benchmark, and automate internet monitoring robots
- ❖ Reporting tools utilized by F100 enterprise customers
- ❖ Wrote [debug_logging](#) to non-intrusively assist with complex debugging in production


Principal Software Engineer ~ [Bolt Threads](#) ~ Sep 2017 - May 2018, 🐘

🍷 Rails 4.2...5.2, Ruby 2.3...2.5, RSpec, PostgreSQL, JIRA, Ubuntu, OPC DA integrations

- Maintenance of a legacy Lab Information Management System (LIMS)
 - analysis and selection of off-the-shelf replacement
- Interviewed candidates for Engineering leadership team:

- Vice President of Engineering, Director of Engineering, & others
- Integrated OPC DA services; Instrumented a Stoll industrial knitting machine
- Completed “Leadership Fundamentals” intensive training

Principal Software Engineer Team Lead [Invoice2go](#) Jan 2016 - Feb 2017,

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


- ❖ Managed and led web team in developing a revamped web app
- ❖ Managed automation team (developer tools); git flow and supporting toolchain
- ❖ Participated in design of new service architecture
- ❖ Designed and implemented feature flags; allowed synch’d multi-client feature releases
- ❖ Promoted to Principal Engineer & assigned leadership role in Jakarta office

Principal Software Engineer [Trumaker & Co](#) Apr 2014 - Mar 2016

 Rails 3.2, Ruby 2.0...2.1, RSpec, React, Ember, Haml, Slim, SASS, PostgreSQL, S3, Sidekiq, TravisCI, Github, Salesforce, NewRelic, Heroku

- Extracted front-end parts to ember-cli and react thin clients
- Built structured, authenticated, performant APIs, utilizing versioning, caching
- Modernized versions of Ruby, Rails, and critical gems
- Supported launches of new product lines (blazers, ties, belts, pants, sweaters, tees, etc)
- Business logic for ordering, manufacturing, shipping & inventory management
- Designed and created a fully spec’d 12-state Lead CRM tool
 - Integrated Salesforce w/ 2-way real-time sync via my [celluloid-io-pg-listener](#) gem
- Built a commissioned sales attribution framework supporting point-in-time history
- Factory patterned spec suite, added thousands of additional tests
- Created Thor deployment automation tool to operationalize critical sub-tasks
- Built front-end tools, & supporting gems, including [status_tag](#), and [destination_errors](#)

Principal Software Engineer [9thBit LLC](#) Aug 2013 - Nov 2014

 Ruby 1.8...2.1, CGI, FastCGI, Mail gem, RSpec, Oracle 11g, rbenv, bash, daemons, RedHat linux

- ❖ Initial 9 month contact with [Church Pension Group](#) extended to project completion
- ❖ Forensic analysis of 5 year old FastCGI ruby service layer
- ❖ Created ruby service APIs to support many varied clients & regression test suite
- ❖ Account locking, token expiry security & automated enforcement
- ❖ Upgraded daemon infrastructure; improved `make` system
- ❖ 10x perf of internal services for \$11B pension management
 - 20 req/s increased to > 200 req/s

Chief Technology Officer [Acquaintable](#) Jun 2012 - Oct 2013

 Rails 3.2, JRuby 1.7, Ruby 1.9...2.0, RSpec, RequireJS, BackboneJS, MarionetteJS, Foundation, Slim, SASS, Neo4j, PostgreSQL, S3, Sidekiq, Unicorn, Puma, TravisCI, Github, Librato, NewRelic, Heroku

- Co-founded, imagined & implemented socially-curated dating through FoF
- Advised on all product and design decisions
- Created matching engine with Neo4j + PostgreSQL data analysis algorithms
- Mobile first, responsive SPA, with intuitive, touch-enabled mobile interface


- Designed to provide an immediate experience within 10 seconds to new users
- Accepted into Entrepreneurs Roundtable Accelerator Winter 2013 class (ERA - NYC)
- Fully automated and self-correcting, no intervention required for final 4 months
- Successful exit via acquisition by Reveal (Microsoft Ventures backed)

Senior Software Engineer Team Lead [Bloomberg LP](#) Aug 2010 - Nov 2012,

 Rails 2.3...3.2, Ruby 1.8...1.9, Grape, RSpec, RequireJS, Foundation, Slim, SASS, SOAP, Unicorn, Puma, TeamCity, Git


- ❖ Bloomberg Black's 1st Employee - personal wealth mgmt startup within Bloomberg
- ❖ Interviewed and hired team of 10 engineers; Promoted to Rails Team co-Leader
- ❖ Built internal libraries:
 - Ruby: VCR - automated curation of SOAP interactions for service isolation
 - Javascript: flyout menus, internally tabbed SPA, scrollspy, breadcrumbs
 - Ruby: Style guide Enforcer validated ruby namespaces against collisions
- ❖ Rack middleware for fast custom logging => Splunk, 10ms per request improvement
- ❖ Patterns: JS modules, ruby cells, presenters, rspec matchers, acceptance tests, JS unit tests
- ❖ CMS FE and BE for dynamic content, supporting SSR & AJAX
- ❖ Maintained platform interoperability – Windows, RedHat & MacOS
- ❖ Forked rack-bug; fixed and rewrote as [rack-insight](#) gem

Senior Software Engineer Team Lead [9thBit LLC](#) Sep 2008 - Aug 2014

 Rails 2.0...2.3, Makandra Rails LTS, Ruby 1.8...2.2, RSpec, Haml, CSS, MySQL, Mongrel, Unicorn, TravisCI, Github, Redmine, NewRelic


- Contract with [Timeperks](#) (early B2B2C DoorDash)
- Mentored junior developers, and reviewed code
- Built CX ghosting/masquerade tool
- Created data reporting features, utilizing my [csv_pirate](#) gem
- Implemented three-way marketplace payments via Amazon FPS;
 - Became maintainer of [remit](#) gem

Senior Software Engineer Team Lead [Sagebit, LLC](#) Jun 2007 - Dec 2011,

 Rails 1.2...3.1, Ruby 1.8...1.9, RSpec, Erb, Haml, CSS, jQuery, MySQL, Mongrel, Unicorn, Github, Redmine, Debian, Ubuntu


- ❖ Hired, mentored, trained team of 5 in Ruby, Rails, REST, and stateless programming
 - Promoted to Team Lead; Led buildout of [RadioBookmark](#)'s back-end
- ❖ Development, testing, deployment, and refactoring internal projects (now offline):
 - TeamClip – Youth sports team management with game video management
 - CartaBuzz – Find things to do near you
 - MonkeyStub – Get tickets to events fast
 - YetiMail – Snopes for Chain Letters / Spam / Phishing
- ❖ Biggest contract was in social networking - [aSmallWorld](#):
 - Led team of 10 developers converting old PHP site to Rails
 - Configured load balanced 32 server prod env, w/ rolling deployments
 - Forum, photo sharing, friend network, page and user tracking
 - Polymorphic CMS; migrated legacy tables to modern data models w/o downtime
 - Handled 2MM uniques per month, and 300K page views per day
 - Advertising engine for Estee Lauder and Mercedes-Mclaren campaigns

Senior Software Engineer ~ [9thBit LLC](#) ~ Dec 2009 - Jul 2010

 Rails 2.3, Ruby 1.9, RSpec, Memcached, EPub


- Contract with [BibleGateway, Zondervan](#) (Harper-Collins), a US top 10 website
 - Initial contract was 6 months, but extended to completion of project
- Developed Google-inspired search engine, based on my gem [awesome_search](#)
- Created dynamic, interactive CLI:
 - Imported hundreds of publications, many formats
 - Improved quality of data, metadata, data linkages
 - Incrementally indexed publications with Solr / Sunspot
- Implemented advanced exception handling and reporting
- Developed text parser, raw text to publishing quality HTML decorated with footnotes

Software Engineer ~ [9thBit LLC](#) ~ Mar 2007 - Jul 2010

 Rails 1.2...2.3, Ruby 1.8...1.9, MySQL, Redis, Redmine, DelayedJob, jQuery, AJAX, CSS, Debian, Ubuntu, Bash


- ❖ Credit union web application
 - Transfer money in and out via third party financial institutions; \$13MM transferred
 - Admin back-end, w/ advanced fraud detection and prevention
 - Interest, audits, reconciliation, KYC, account statements, & ledgers
 - Notifications and CX system, with knowledge base
 - DevOps: Security hardening, server provisioning, backups, etc
- ❖ Letter writing, printing, and mailing - physical letters to Legislators as a Service
 - Geolocates users to determine correct legislators

Software Engineer ~ [9thBit LLC](#) ~ Aug 2008 - Aug 2010

 Rails 2.1...2.3, Ruby 1.8...1.9, RSpec

- Profit-sharing contract with [Neighborino, LLC](#) (venture development)
- Photo uploading & sharing, form handling, messaging, advertising services, calendaring
- Created a mailer daemon system to send emails without end-user impact

Software Engineer ~ [Legislative Services Agency](#) ~ Apr 2006 - Jun 2007

 Rails 1.1...1.2, Ruby 1.8, Oracle 8i, 9i & 10g, jQuery, AJAX, CSS, Redhat Linux, Windows IIS, XML, XSL, Tomcat, Cocoon, C#, Google search appliance

- ❖ Built [Indiana Register](#) website - automatically publishes all official legislative documents
 - Designed layout, created CSS which 15 years on is still beautiful, fast, and timeless!
 - Search feature backed by a Google Mini search appliance
 - Batch and shell scripts for automatic publishing of official documents
 - Started work on Section 508 compliance (accessibility)
- ❖ Created Indiana General Assembly's internal call center application
 - Cisco IPCC & PBX integration with Rails app runs House, Senate, and LSA call centers
 - World's first enterprise Rails app on Windows Server 2k3 & IIS6 (2006, [ref1](#), [ref2](#))
 - AJAX address based lookup of senate and house districts for constituents
 - Constituent issue tracking; automated daily summary email to legislators

Software Engineer ~ [PanEther, LLC](#) ~ Dec 2005 - Mar 2007

🍷 Rails 0.14...1.2, Ruby 1.8, Nginx, Mongrel Cluster, Lighttpd, MySQL, Memcached, Redmine, jQuery, AJAX, CSS, Debian, Ubuntu, Bash

- Built a fantasy football website for a client

Software Engineer ~ [Optivel, Inc](#) ~ Dec 2004 - Apr 2006, 🏠

🍷 Rails 0.10...1.1, Ruby 1.8, Mongrel, MySQL, Memcached, Bugzilla, Bash, PHP, Java, Perl, Scheme, Nagios, Debian, apt

- ❖ Primary developer on first open-source, Rails-based, ticketing system: [SimpleTicket](#)
- ❖ Promoted to Software Engineer; built “AirBnB for Airplanes” in PHP
- ❖ Managed a Debian apt repository mirror and internal .deb packages for:
 - Configuration synchronization, key rotation, and automated backups

Volunteer Work

- ★ Liberian civil war refugee assistance since 2013. Purchase land, build homes, repatriate/relocate. Find self-sufficiency by farming/husbandry/employment. Registered Liberian NGO [Hope For Tomorrow](#) in 2015. Stabilize many families and orphans each year.
- ★ Co-founded [WordTree Foundation](#) in 2013. Algorithms enable scientific analysis (e.g. n-gram) of literary provenance. Pre-modern focus to map evolution of ideas. [Free and open source](#).

Honors & Certifications

- ★ 2x Dean’s Honor List for Computer Science, Ball State University
- ★ Indiana Core 40 Honors Diploma, Muncie Central High School
- ★ Eagle Scout - Boy Scouts of America
- ★ Barista, Certified & Licensed in Australia by CBD College, Sydney, RTO# 91399
 - SITHFAB005 - Prepare and serve espresso coffee
 - SITXFSA001 - Use hygienic practices for food safety

Education

- ➔ Ball State University, CS(*), Science & Humanities, Muncie, IN, 2 years
- ➔ ...Purdue University, MIS(*), Science & Eng Tech, Lafayette, IN, 2 years
- ➔ Ball State University, CS(*), Science & Humanities, Muncie, IN, 2 years
- ➔ Purdue University, CIT(*), Engineering Technology, Indianapolis, IN, 2 years
- (*) Univ part-time, work full-time; flat-top roofer, tech support, programmer ➔ No degrees