**PETER H BOLING**

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[🔗Portfolio](http://railsbling.com) ⦚ [💎Gems](https://rubygems.org/profiles/pboling) ⦚ [🐙Hub](https://github.com/pboling) ⦚ [🧪Lab](https://gitlab.com/pboling) ⦚ [🛖Hut](https://sr.ht/~galtzo/) ⦚ [📅Calendly](https://calendly.com/peter-boling/30min)

Director, leader, mentor, sys admin, FLOSS advocate, barista, and builder for 25 years. Passions are testing, efficiency, best practices, and improving the human condition by automation.

Recognized [in July 2022](https://github.blog/2022-06-24-thank-you-to-our-maintainers/) as one of 904 builders of FLOSS tools making Github possible. Specialize in migrating legacy systems to modern architecture utilizing principles of BDD, and DDD.

World first: Enterprise Rails app on Windows Server 2k3, IIS6 + FastCGI w/ SSO (2006, [ref1](https://discuss.rubyonrails.org/t/iis-new-fastcgi-support-and-rails/5614/5), [ref2](https://markmail.org/message/tvkxqnpjltu5xvtk#query:+page:1+mid:tvkxqnpjltu5xvtk+state:results)). Led massive PHP-to-Rails migrations @ [aSmallWorld](https://www.asmallworld.com) (2008-9) and [BibleGateway](https://www.biblegateway.com) (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 (7x)

# Leadership & Management Summary

**Director of Engineering**, [Riviera Partners](https://rivierapartners.com); 20 engineers, 7 direct reports; 2020 - present

**Executive Director**, National Progressive Party; helped launch [WAPP](https://waprogressiveparty.org/); 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](https://www.facebook.com/meetkarunahealth/); architecture, mentoring, planning; 2018 - 2020 (Acquired)

**Leadership Fundamentals**, [Bolt Threads](https://boltthreads.com/); intensive training; 2017 - 2018

**Web Team Lead**, [Invoice2go](https://invoice.2go.com/); managed 6 devs, & 1 QA Engineer; 2016 - 2017

**Automation Team Lead**, [Invoice2go](https://invoice.2go.com/); managed 1 dev, coordinated horizontally; 2016 - 2017

**CTO and Co-founder**, [Acquaintable](https://www.crunchbase.com/organization/acquaintable); online dating; managed team of 5; 2012 - 2013 (Acquired)

**Co-founder**, [Word Tree Foundation](http://wordtree.org/); Big Data analysis of literary provenance; 2013 - present

**First Employee & Team Lead**, [Bloomberg’s](https://www.bloomberg.com/) wealth mgmt tool; led team of 10; 2010 - 2012

**Team Lead,** [Sagebit](https://www.bizapedia.com/in/sagebit-llc.html); mentored 5 recent graduate programmers; 2008 - 2009

# Free (Libre) Open Source Summary

[**Tidelift**](https://tidelift.com/about/lifter#funded-packages) **Maintainer,** [**RubyGem**](https://rubygems.org/profiles/pboling) **&** [**NPM**](https://www.npmjs.com/~pboling) **Project Lead**, 67+ libraries; widely adopted (10.22.22):

1. [oauth2](https://rubygems.org/gems/oauth2) - OAuth 2 Client; *maintainer* since 2017; 124MM DL
2. [oauth](https://rubygems.org/gems/oauth) - OAuth 1 Client & Server; *maintainer* since 2021; 83MM DL
3. [version\_gem](https://rubygems.org/gems/version_gem) - Gemspec-compatible VERSION enhancer; *author*, 2022; 3.5MM DL
4. [dynamoid](https://rubygems.org/gems/dynamoid) - Amazon DynamoDB ORM; *maintainer* since 2016; 2.8MM DL
5. [gem\_bench](https://rubygems.org/gems/gem_bench) - Gemfile static analysis; *author*, 2013; 2.8MM DL
6. [flag\_shih\_tzu](https://rubygems.org/gems/flag_shih_tzu) - Bitfields for ActiveRecord; *maintainer* since 2012; 1.8MM DL
7. [sanitize\_email](https://rubygems.org/gems/sanitize_email) - Email condom for Ruby server; *author*, 2009; 1.5MM DL
8. [omniauth-identity](https://rubygems.org/gems/omniauth-identity) - Trad un/pw adapter for omniauth; *maintainer* since 2020; 1.4MM DL
9. [snaky\_hash](https://rubygems.org/gems/snaky_hash) - A Hashie::Mash joint for #snakelife; *author* 2022; 1.3MM DL
10. [seed\_migration](https://rubygems.org/gems/seed_migration) - Rails gem for Data Migrations; *maintainer* 2022; 1.1MM DL

# Director of Engineering ⦚ [Riviera Partners](https://rivierapartners.com) ⦚ 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 & devops teams. Focused on infrastructure as code & services
* Order of magnitude improvement to response rate w/ automated email drips
* Map business domain with Event Storming (Domain Driven Design)
* Upgraded tools, dependencies & SSL certificates, patched CVEs
* Promoted to Eng Manager, then Director of Engineering: head count 20
* Wrote [service\_actor-promptable](https://rubygems.org/gems/service_actor-promptable) to assist with CLI-based system management

# Tech Advisor, Principal Software Engineer ⦚ [Karuna Health](https://www.facebook.com/meetkarunahealth/) ⦚ Nov 2018 - Apr 2020

🥞Rails 5.2, Ruby 2.5…2.6, RSpec, PostgreSQL, SQS, Protobuf, S3, ES, Sidekiq, Aptible, Github

* Built email gateway, notification services, & helped plan architecture of system
* Advised on technology & hiring at Karuna Health; Acquired by [Commure, Inc](https://www.commure.com/)

# Principal Software Engineer ⦚ [9thBit LLC](https://9thbit.net) ⦚ 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](https://gainbridge.io/), [Delaware Life](https://www.delawarelife.com/), [Group1001](https://www.group1001.com/), Relay Rewards (offline)
* Primary developer of all Rails-based apps (Relay Rewards & Group1001)
* Developing front end (Gainbridge, React v16), SME for analytics, & E2E specs in Cypress

# Principal Software Engineer ⦚ [9thBit LLC](https://9thbit.net) ⦚ 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
* Time-series collection & analytics of changes to *the internet (writ large)*
* Devops tools to better utilize infrastructure & manage costs
* Advanced math to transform non-scalar data from AWS Alexa into a scalar digest
* Monitor, log, benchmark, & automate internet monitoring robots
* Reporting utilized by many F100 enterprise customers
* Wrote [debug\_logging](https://github.com/pboling/debug_logging) to non-intrusively assist with complex debugging in production

# Principal Software Engineer ⦚ [Bolt Threads](https://boltthreads.com/) ⦚ 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 & 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](https://invoice.2go.com/) ⦚ 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 & led web team in developing a revamped web app
* Managed automation team (developer tools); git flow & supporting toolchain
* Participated in design of new service architecture
* Designed & implemented feature flags; allowed synch’d multi-client feature releases
* Promoted to Principal Engineer & assigned leadership role in Jakarta office

# Staff Software Engineer ⦚ [Trumaker & Co](http://www.trumaker.com) ⦚ 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 & react thin clients
* Structured, authenticated, performant APIs, utilizing versioning, caching
* Modernized Ruby, Rails, critical gems, & spec suite w/ factory pattern
* Supported launches of new product lines (blazers, ties, belts, pants, sweaters, tees, etc)
* Business logic for ordering, manufacturing, shipping & inventory management
* Fully spec’d 12-state Lead CRM tool w/ sales attribution framework (commissions)
  + Integrated Salesforce w/ 2-way real-time sync via my [celluloid-io-pg-listener](https://rubygems.org/gems/celluloid-io-pg-listener) gem
* Thor deployment automation tool to operationalize critical sub-tasks
* Front-end tools, & supporting gems, including [status\_tag](https://rubygems.org/gems/status_tag), & [destination\_errors](https://rubygems.org/gems/destination_errors)

# Staff Software Engineer ⦚ [9thBit LLC](https://9thbit.net) ⦚ 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](http://cpg.org) 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, 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](https://www.crunchbase.com/organization/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 & 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 & 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](https://www.bloomberg.com) ⦚ 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 & hired team of 10 engineers; Promoted to Rails Team co-Leader
* Extended VCR - automated curation of SOAP interactions for service isolation
* Javascript flyout menus, internally tabbed SPA, scrollspy, breadcrumbs
* 10ms per request faster rack middleware w/ custom logging to Splunk
* Patterns: JS modules, ruby cells, presenters, rspec matchers, acceptance tests, JS unit tests
* CMS FE & BE for dynamic content, supporting SSR & AJAX
* Maintained platform interoperability – Windows, RedHat & MacOS
* Forked rack-bug; fixed & rewrote as [rack-insight](https://rubygems.org/gems/rack-insight) gem

# Senior Software Engineer Team Lead ⦚ [9thBit LLC](https://9thbit.net) ⦚ 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](https://www.youtube.com/watch?v=b8f6mPkChrs) (early B2B2C DoorDash)
* Promoted to Team Lead; mentored junior developers, & reviewed code
* CX ghosting/masquerade tool, & reporting features (utilizing my [csv\_pirate](https://rubygems.org/gems/csv_pirate) gem)
* Implemented three-way marketplace payments via Amazon FPS; began maintaining [remit](https://rubygems.org/gems/remit)

# Senior Software Engineer Team Lead ⦚ [Sagebit, LLC](https://www.crunchbase.com/organization/sagebit) ⦚ 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, & stateless programming
  + Promoted to Team Lead; Led buildout of [RadioBookmark](https://www.radiobookmark.com/)’s back-end
* Development, testing, deployment, & 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
* Contract: Led team of 10 developers converting [aSmallWorld](http://asmallworld.com/) to Rails
  + Configured load balanced 32 server prod env,w/ rolling deployments
  + Forum, photo sharing, friend network, page & user tracking
  + Polymorphic CMS; migrated legacy tables to modern data models w/o downtime
  + Handled 2MM uniques per month, & 300K page views per day
  + Advertising engine for Estee Lauder & Mercedes-Mclaren campaigns

# Senior Software Engineer ⦚ [9thBit LLC](https://9thbit.net) ⦚ Dec 2009 - Jul 2010

### 🥞Rails 2.3, Ruby 1.9, RSpec, Memcached, EPub

* Contract with [BibleGateway, Zondervan](http://biblegateway.com) (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](http://github.com/pboling/awesome_search)
* Tool for importing publications in many formats, w/ incremental Solr indexing
* Implemented advanced exception handling & reporting
* Developed text parser, raw text to publishing quality HTML decorated with footnotes

# Software Engineer ⦚ [9thBit LLC](https://9thbit.net) ⦚ 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 & out via third party financial institutions; $13MM transferred
  + Admin back-end, w/ advanced fraud detection & prevention
  + Interest, audits, reconciliation, KYC, account statements, & ledgers
  + Notifications & CX system, with knowledge base
  + DevOps: Security hardening, server provisioning, backups, etc
* Letter writing, printing, & mailing - physical letters to Legislators as a Service
  + Geolocates users to determine correct legislators

# Software Engineer ⦚ [9thBit LLC](https://9thbit.net) ⦚ Aug 2008 - Aug 2010

### 🥞Rails 2.1…2.3, Ruby 1.8…1.9, RSpec

* Profit-sharing contract with [Neighborino, LLC](https://www.crunchbase.com/organization/neighborino) (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](http://iac.iga.in.gov/iac/irtoc.htm) ⦚ 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](http://iac.iga.in.gov/iac/irtoc.htm) & [Administrative Code](http://iac.iga.in.gov/iac/iac_title) site - official documents auto-published
  + Designed layout, created CSS which 15 years on is still beautiful, fast, & timeless!
  + Search feature backed by a Google Mini search appliance
  + 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, & LSA call centers
  + World’s first enterprise Rails app on Windows Server 2k3 & IIS6 (2006, [ref1](https://discuss.rubyonrails.org/t/iis-new-fastcgi-support-and-rails/5614/5), [ref2](https://markmail.org/message/tvkxqnpjltu5xvtk#query:+page:1+mid:tvkxqnpjltu5xvtk+state:results))
  + AJAX address based lookup of senate & house districts for constituents
  + Constituent issue tracking; automated daily summary email to legislators

# Software Engineer ⦚ [PanEther, LLC](https://www.dandb.com/businessdirectory/panetherllc-indianapolis-in-22285441.html) ⦚ 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](https://rocketreach.co/optivel-inc-profile_b445a0dafa55b3c4) ⦚ 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](https://sourceforge.net/projects/simpleticket/)
* Promoted to Software Engineer; built “AirBnB for Airplanes” in PhP
* Managed Debian apt mirror & internal .debs for config sync, key rotation, & auto-backups

# Volunteer Work

* Liberian civil war refugee assistance since 2013. Relocate, buy land, build homes, find employment. NGO [Hope For Tomorrow](https://www.facebook.com/hope.for.tomorrow.liberia/) reg 2015. Dozens stabilized each year.
* Co-founded [WordTree Foundation](http://wordtree.org) in 2013. Algorithms enable scientific analysis (e.g. n-gram) of literary provenance. Pre-modern focus to map evolution of ideas. [Free & open source](http://github.com/wordtreefoundation).

# 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

* ···· semesters at Ball State University, Computer Science, Muncie, IN
* ···· semesters at Purdue University, Management Information Systems, Lafayette, IN
* ··· semesters at Ball State University, Computer Science, Muncie, IN
* ·· semesters at Ivy Tech, Computer Information Technology, Anderson, IN
* ····· semesters at Purdue University, Computer Information Technology, Indianapolis, IN

**(\*)** Univ part-time, work full-time; flat-top roofer, tech support, programmer ➔ No degrees