

## SUMMARY:

- Full stack developer, building cloud-based Ruby on Rails, SQL, Linux, and Docker systems.
- Learning Python ML/AI items such as NumPy, Matplotlib, Pandas, PySpark; plus, models, datasets and notebooks.

## SKILLS:

Language:	Ruby, Python, Elixir, PHP, Perl, C/C++, Java, TypeScript, JavaScript, AJAX, JSON, CSS, XML, XML-RPC, WML, SyncML, HDML, HTML, SQL, PL/SQL, ARM Compiler
Framework:	Rails, Django, React, Angular, Vue, GraphQL API, Swagger API, Docker, Kubernetes, and Jenkins
Database:	PostgreSQL, MySQL, MariaDB, Oracle, Sybase, DB2, Informix, MS SQL Server, MongoDB
Server:	Rails, Phoenix, Nginx, Passenger, Docker, Sphinx, CircleCI, Amazon, Heroku, Sidekiq, Redis
OS / CI/CD:	OSX, Linux, UNIX, Rackspace, Gitlab, Github, CI/CD (Continuous Integration and Deployment)
Cloud:	AWS (Amazon Web Services), GCP (Google Cloud Platform), Heroku (Salesforce), VMware Cloud
Wireless:	CDMA, TDMA, GSM, Wi-Fi, and Location Based Applications
Business:	ROI, Profit/Loss, Budget, Pricing, Product/Project Management, Business Plan, Hiring
Project:	Certified ScrumMaster, with experience in both Agile and Waterfall development methods

## Sommer Systems, LLC, Palo Alto, CA

### Clients:

Audi of America, Argonne, Salesforce, Samsung, IBM Watson Health, Stanford University, Cisco, VMware, Estee Lauder, Goodshop, Federated Media, Geeknet, APWG, Amazon/Lab126, Motorola, FusionOne, Nokia, Autodesk LBS, Netscape, Oracle, Sybase, KPMG, QRS, diCarta, Xilinx, Electronic Arts, Merrill Lynch Japan, Nestle UK, IBM, and Johnson Controls Intl.

### Projects:

#### **Ruby, Python, and Elixir Development:**

##### **Dealerware, Audi of America**, Austin, TX, 2024 – 2025, 1 year (Remote)

Ruby on Rails and React development, building Dealerware's fleet management platform for auto dealerships

- Extended the Dealerware Rails based API system, to interact with the Apex Insurance verification, and React UI
- Performed Ruby on Rails, React, and MySQL code enhancements to improve system performance and UI/UX
- Wrapped existing code base with Rspec test coverage, and tied it into the CircleCI pipeline CI/CD process
- Upgraded Dealerware's mob-api Ruby on Rails platform from Rails 6 to Rails 7, and Ruby 3.0 to Ruby 3.2

*Environment:* Ruby, Rails, React, JavaScript, MySQL, Github, CircleCI, Linux, Docker, Postman API tools

*Team:* Five developers, a scrum master, a product manager, and QA

##### **Estee Lauder**, New York, NY, 2023, 1 year (Remote)

Ruby on Rails, Elixir and Python development, transporting global brand websites, from Drupal to a new platform

- Applied Ruby on Rails design principals to Elixir and Phoenix development, to develop responsive websites
- Pulled data from a multiple APIs, transposing it using custom Elixir "mapper" code, and formatting with Tailwind
- Explored ChatGPT and OpenAI integration with Ruby, Ruby on Rails, Python, and Python with Django platforms
- Researched Python packages NumPy, Matplotlib, Pandas, and PySpark, for their use in data engineering
- Experimented with PostGIS (Postgres Geographic Information System) spatial and vector data, as used in AI

*Environment:* Ruby, Elixir, Python, ChatGPT, OpenAI, PostgreSQL, PGvector, AWS, Tailwind CSS, git, Linux

*Team:* Eight developers, three product managers, and a scrum master

##### **Argonne National Laboratory**, Chicago, IL, 2021 – 2022, 1 year (Remote)

Ruby on Rails, Oracle, and SQL Server development, upgrading and migrating security applications

- Built a Docker container POC, deploying EOL Rails applications to current day AWS EC2 services
- Upgraded and migrated Ruby on Rails Nuclear Safety applications from Oracle to MS SQL Server
- Extended Oracle PL/SQL stored procedures, and tied the changes into JavaScript ExtJS UI
- Enabled Rspec unit tests in older Rails apps, without disturbing a shared testing database
- Extended the Gitlab CI/CD pipeline, to add automated testing to the deployment cycle
- Rewrote JavaScript the print server functions, to current browser and OS standards

*Environment:* Ruby, Rails, JavaScript, Oracle, MS SQL Server, Gitlab, CI/CD, Linux, Docker, AWS EC2, Node.js

*Team:* Eight developers, a scrum master, and a product manager

##### **Salesforce**, San Francisco, CA, 2020 - 2021, 1 year (Remote)

Ruby, Elixir, CircleCI, and Docker development, upgrading Heroku Vault applications

- Upgraded and maintained 20 Ruby, Rails, Sinatra, and Elixir/Erlang applications, all using PostgreSQL
- Converted 20 applications from Travis to CircleCI, and published them onto the Heroku/AWS/Salesforce Cloud

- Configured Docker for complete local development and testing of Ruby and Elixir applications, with Postgres
- Provided architectural direction for automating Heroku billing scripts, and long-term conversion to Salesforce
- Daily use of Heroku, AWS, PostgreSQL, Git, and Linux CLI tools, for releases and operational procedures.

*Environment:* Ruby, Rails, Sinatra, Elixir, Erlang, PostgreSQL, Linux, Github, Heroku/AWS/Salesforce Cloud Pipeline

*Team:* Three developers a project manager, and daily interface to the BusOps customer service team

**Samsung**, Mountain View, CA, 2019 – 2020, 1 year

Ruby on Rails development, upgrading and expanding the Samsung Ads Trader platform

- Expanded the Rails/React Samsung Ads Trader platform, to include functionality from a Java/Angular system.
- Normalized prior database to reduce existing and new table count from 50 to 5 tables, and refactored code.
- Developed high performance algorithms, to generate BERT files for data transfer to other systems.
- Converted many of the traditional Rails views, to a GraphQL API backend, with React SPA frontend.
- Extensively wrapped Ruby code with Rails Minitests, using Factory Bot factories, traits, and plain Ruby objects.
- Upgraded the dated Rails 4 system, to Rails 5. Rails 6 was not an option, due to unavailability of crucial gems.

*Environment:* Rails, React, GraphQL, PostgreSQL, Minitest, Factory Bot, Jira, Concourse CI/CD Pipeline, BERT

*Team:* Eight developers and two project managers

**IBM Watson Health**, Cambridge, MA, 2019, 6 months (Remote)

Ruby on Rails, Docker, Kubernetes and Jenkins development on existing apps, moving them to the cloud

- Containerized existing Rails applications, for deployment into a Docker/Kubernetes environment
- Created separate Docker configurations for Rspec, Spinach, and application deployment environments
- Generated containers for the Rails app, Rspec and Spinach UI test, Redis, Postgres, and Selenium with Chrome
- Integrated Pry debugging into container builds, for debugging the Ruby code, and container issues
- Tied Docker containers and code, into Jenkins testing and deployment processes
- Implemented security and product updates for the existing UsageMeter Rails application

*Environment:* Ruby on Rails, PostgreSQL, Docker, Kubernetes, Jenkins, Linux, Git, Jira

*Team:* Four developers and a project manager

**Stanford University**, Palo Alto, CA, 2017 to 2018, 1 year

Ruby on Rails development, for the Humanities and Sciences Dean's Office

- Built an 'umbrella' application, to seamlessly request and reserve resources, across multiple systems
- Developed against, and integrated, Office 365 and 25Live API systems into one coherent user experience
- Audited and improved Rails performance, using Scout, multi-threading, and Typhoeus parallel HTTP processing

*Environment:* Ruby on Rails, PostgreSQL, Microsoft Graph API, Office 365, 25Live, Git, Linux, Scout, Typhoeus

*Team:* Two developers and a project manager.

**Cisco Systems**, San Jose, CA, 2016 to 2017, 2 years, 2 projects

Ruby on Rails, developed the Cisco Kinetic IOT platform, and a hosted licensing system

- Integrated Cross-site Scripting (XSS) protection, into the Rails 5 Cisco Kinetic IOT platform.
- Implemented UUID into an existing IOT platform, without overriding existing PK/FK database values.
- Wrote Ruby/JSON APIs to communicate with an Angular 2 application, and modified TypeScript code.
- Wrote the Cisco OmniAuth\_SSO gem, to authenticate Cisco users against a set of Ping Federated APIs.
- Built a Rails authentication system, for OmniAuth Identity, LDAP, CAC, and SSO authentication providers.
- Setup Rails development for a Centos 7, Vagrant, Phusion Passenger, Nginx, Angular 2 configuration.

*Environment:* Ruby on Rails, PostgreSQL, OmniAuth, Angular, Vue.js, Swagger API, TypeScript, Vagrant, Linux, AWS

*Team:* Five developers (two local, and three remote), and a remote project manager.

**VMware**, Palo Alto, CA, 2013 to 2015, 2 years

Ruby on Rails, Lead developer/architect, on a 2 year vCloud Air project:

- Built the Presto system using Ruby, for VM deployment and management across 10 global datacenters.
- Utilized VMware datacenters built on GCP (Google Cloud Platform), Google's scalable infrastructure.
- Created the Presto API, to feed automated deployment of VM nodes, through Vagrant and r10K.
- Integrated Sphinx's full text search engine, for configuration data across all nodes, in all data centers.
- Tightly integrate Presto with Infoblox for DNS, and Puppet for data collection and deployment in GCP.
- Created a premium UI/UX experience, outlining the vCloud Air datacenters and nodes.
- Created multiple rake tasks, for ongoing maintenance of nodes in GCP.
- Evaluated Ruby on Rails vs Python with Django, for use on the project.

*Environment:* Rails, Puppet, Delayed\_job, Capistrano, Vagrant, R10K, Sphinx, PostgreSQL, Docker, CI, Git, Linux

*Team:* Five developers, with support of a Linux system administrator.

**Goodshop**, San Francisco, CA, 2015 to 2016, 4 months

Ruby on Rails, Lead developer/architect, on a Product Feeds project:

- Built the Goodshop Product feeds service, integrating multiple affiliate XML data feeds into one service.
- Created a service, to do Google style full text searches, across 200 million products (1 TB) in 7 milliseconds.
- Developed “upsert” functionality, using PostgreSQL, Rails and Sphinx, for real-time data upload and indexing.
- Developed a RESTful API, for feeding product data to other Goodshop services.

*Environment:* Ruby on Rails, Sphinx, Capistrano, PostgreSQL, Git, Linux, Chef, Rackspace, Sidekiq, Redis, Unicorn

*Team:* Single developer, with support of a Linux system administrator.

**Federated Media**, San Francisco, CA, 2012 to 2013, 2 years

Ruby on Rails development on five projects:

- Created a “content pool” advertising management system for affectively distributing ad content within campaigns
- Integrated Zemanta’s content sourcing system with Federated Media’s advertising content management system
- Integrated Sphinx full text search engine into the Rails / MySQL platform, for very fast cross-campaign searches

*Environment:* Ruby on Rails, RSpec, Sphinx, Bootstrap, Google Chart Tools, HAML, MySQL, Git, OSX, Linux

*Team:* Five developers, with support of a Linux system administrator.

## **PHP Development:**

**Anti-Phishing Working Group (APWG)**, Sunnyvale, CA, 2009 - 2010, 2 years

- Developed an anti-phishing and domain suspension platform, using PHP, Perl, MySQL and Linux.
- APWG is a consortium of over 1,500 financial services companies, ISPs, law enforcement agencies.

*Environment:* Linux, Apache, MySQL, PHP, cakePHP, Perl, HTML, CSS, JavaScript, JQuery, AJAX, JSON, SVN

*Team:* Sole developer, with support of a Linux system administrator.

## **Java Development:**

**Amazon/Lab126**, Mountain View, CA, 2006, 6 months

- Integrated a HTML browser into the original Amazon Kindle, including web services for the browser.
- Provided vendor and project management support, organized disparate groups within Amazon and Access, and delivered timely results. Consistently exceeded client expectations.

*Environment:* Embedded Linux, EVDO, Java, HTML, XML, web services.

*Team:* Contributed to approximately 20 internal and external engineering resources.

**Zapptrio, Inc.**, San Jose, CA, 2005 - 2006, 1 year

- Designed and developed wireless content and navigation systems, using J2ME and BREW.
- Contributed to the engineering team, qualified remote vendors, and managed outsourced development.

*Environment:* Linux, Apache, Tomcat, MySQL, Java, Subversion, C/C++, BREW, J2ME, Ajax, DHTML, PSMS.

*Team:* Contributed to a team of three internal developers, a Linux administrator, and 15 outsourced engineers.

**Improvista Interactive Music, Inc.**, Mountain View, 2004 - 2005, 1 year

- Designed and developed Java, and BREW wireless apps against an Apache/Tomcat/MySQL server platform.
- Maintained 7x24 co-hosting facilities, serving AT&T/Cingular, Midwest Wireless, and Cricket carriers.

*Environment:* Linux, Apache, Tomcat, MySQL, Java, Subversion, C/C++, BREW, J2ME, HTML.

*Team:* Contributed to a team of eight internal developers, a Linux administrator, and 10 outsourced engineers.

**Expand Cellular, Inc.**, Portland, OR, 2003 - 2004, 1 year

- Designed and developed a co-hosted server platform, using Linux, Java, and MySQL.
- Produced NSTL BREW certified client/server applications, for distribution to Verizon, US Cellular, and Alltel.
- Chosen as finalist in the Best Productivity Application category for the BREW 2003 Developer Awards.

*Environment:* Java, Linux, Apache, JBoss, MySQL, Subversion, Python, C/C++, BREW, HTML.

*Team:* Contributed to a team of three internal developers, plus a Linux administrator.

## **EDUCATION:**

**Doctorate, Business Administration** - Hawthorne University

**Graduate Studies in Business and Engineering** - Purdue University and University of Virginia

**Bachelor of Science, School of Engineering** - Southern Illinois University