

AARON ROHRBACHER

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PROFESSIONAL PROFILE

Senior Software Engineer with proficiency in programming and DevOps and expertise in fiduciary finance, HR, payroll, and logistics, delivering creative, effective, and timely solutions across the three largest cloud platforms.

Expertise and Accomplishments include:

- Leveraged most features of all three major cloud computing platforms to produce creative, cost-saving solutions for web applications.
 - Developed and implemented new development tools and infrastructure, identified technical problems, created software updates and fixes, and automated processes to reduce errors and improve customer experience..
 - Collaborated with stakeholders and software developers to ensure development followed established processes and worked as intended, effectively communicating needs and avoiding technical jargon to prevent misunderstandings.
 - Gained valuable experience as an SDET in my first technology-based role, examining code, identifying vulnerabilities, and providing direct technical suggestions to developers, ensuring systems are safe and secure against cybersecurity threats.
 - Architected, designed, and built a production-level project focused on technical, financial, and stakeholder viability, creating a cost-effective, high-performing solution for automated user signup and account modifications.
 - Developed software to integrate with internal back-end cloud-based and on-site systems and created scripts to automate visualization, leveraging open-source tools for efficient and cost-effective solutions.
 - **Certifications:** AWS, Certified Cloud Practitioner / AWS, Certified Developer - Associate.
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TECHNICAL SKILLS

Languages and Frameworks: JavaScript + NodeJS + TypeScript, Python, Ruby + Rails, Java, Bash, Powershell, ...

Cloud Engineering:: EC2, ECS/EKS, Lambda, CloudFormation, VPC, DNS/Networking, IAM, Cognito, Cost Management/Budgets, Cloudwatch, S3 integrations, SES/SMS, connect for call centers, VOIP and SIP Trunking, equivalents for GCP and Azure. Serverless Framework. wide variety of IaC, CI/CD, Docker, Compose, ...

AI: PyTorch, implementing LLMS and other ML fundamentals. Natural language chatbots. Amazon Q, Lex, Polly, Transcribe, ...

Databases: PostgreSQL, MySQL (and derivatives), MongoDB, DynamoDB and other no-SQL equivalents.

Frontend Integrations: React, Vue.js, Angular, Vanilla JS, etc. Bootstrap, CSS, HTML, Markdown, Adobe products, GIMP, WordPress, SASS, ...

Testing: Unit testing across most stacks, Cypress, Jest, Jasmine, Selenium, Mocha, Puppeteer, TestNG, Rest-assured, Custom scripting, Penetration and Vulnerability testing, BurpSuite, OWASP top 10, ...

Github: <https://github.com/aaronrohrbacher>

Operating Systems: Linux (CentOS, Ubuntu, Debian, Amazon, Arch), MacOS, Windows

PROFESSIONAL EXPERIENCE

Technical Lead, Senior Software Engineer, SPARQ, Atlanta, GA (Remote) Aug 2022 – Present

- Consulting for a trailblazer in augmentative communication software to lead technical debt reduction in their former Ruby on Rails + EmberJS app.
 - o Worked with leadership whose developer went AWOL, leaving very little documentation behind, to properly document the existing API
 - o Developed a comprehensive infrastructure plan, in multiple phases, to migrate their application to a new cloud provider (Heroku to AWS), upgrade or replace severely deprecated dependencies, and relaunch an app that is safer for its users and stakeholders. Successfully did this in parallel with zero app downtime.
 - o Developed a creative, cost-effective new architecture plan to use a more flexible and secure JavaScript framework (React), rebuild the backend as an isolated API (NodeJS on Lambda/API Gateway + Microservices), thus avoiding AJAX-based cross-site origin vulnerabilities caused by legacy code.

- o Served as the lead system architect and developer to execute building microservices and APIs using AWS Lambda and NodeJS, with third-party services running independently. Resulted in a safer, considerably more scalable application, at an 87% annual cloud infrastructure cost savings to the client.
- Consulted for a global leader in logistics and shipping (known for their brown trucks rolling around your city) as an expert in cloud computing.
 - o Successfully completed the phase one production deployment of an entire overhaul of payroll systems to a modern, multi-system integration API for payroll, serving over 500k employees.
 - o Modernized internal API processes for a new payroll vendor, leveraging GCP CloudRun functions, resulting in humungous cost savings. We used Python, Java, and a sprinkle of NodeJS.
 - o Guided offshore development teams on ADO CI/CD best practices with a GCP deployment, development environment virtualization and local setup, and integration with GCP resources.
 - o Mentored more junior programmers and introduced modern cloud computing concepts to the offshore dev team and stakeholder leadership.
- Led an in-house team to create AI-based conversational experiences for internal websites.
- Served as a member of the security and risk management teams, providing penetration testing and risk management.

Software Engineer II, *Nordic Semiconductor*, Portland, OR

Feb 2022 – Mar 2022

- Developed test automation tools and scripts for AWS in NodeJS. React, AWS, Jest, Cypress, Linux, Istanbul.
- Built Nordic Semiconductor's first "thingy lab," where experiments with IoT devices on our proprietary dashboard platform could come to life in more combinations without leaving the room.

Proprietor, System Architect and Engineer, *Nuel Cloud Computing LLC*, Portland, OR

Aug 2020 – Feb 2024

- Architected and developed a proprietary solution in AWS to provision containerized LAMP stacks (PHP) via ECS and EKS for WordPress designers and PHP developers for their new and existing customers. Developed in NodeJS, Express, Python, Serverless Framework, using AWS Lambda, API Gateway, ECS and EKS, AWS Cognito, among many others.
- Architected and designed a dashboard for new and existing customers to automate signup, migration from legacy systems, customized stack preferences, user profiles, and PHP/WordPress plugin installation and support. Frontend written in React. Additional backend APIs/scripts written in NodeJS, PHP, and Bash.
- Improved the customer experience for WordPress and PHP developer clients, providing the fastest WordPress/PHP installation available on the market, at prices comparable to existing hosts. Integrated backend caching applications and servers optimized for WordPress/PHP, along with Amazon CloudFront.
- Provided security and vulnerability assessments, automating security best practices throughout the system. Quickly responded to client security concerns, with nearly zero downtime.

Junior Software Development Engineer, *Fiduciary Benchmarks*, Lake Oswego, OR

Jul 2018 – Aug 2021

- Designed and maintained an automated test suite using JavaScript within Cypress end-to-end testing software.
- Designed and maintained a sophisticated suite of manual regression tests using Cucumber and BDD best practices.
- Analyzed, debugged, and communicated issues reported by data operations and service teams.
- Reliably communicated test results to the Development Manager and our agile development team.
- Implemented a digital adoption platform (WalkMe) to develop and maintain a step-by-step help system, ensuring client success with our application.

Web Development Intern, *Planet Argon*, Portland, OR

Jan 2018 – Feb 2018

- Worked on client projects for NIKE, Aloha Foods, and PAC global, creating test suite enhancements, sitemaps and integration, and advanced Spree eCommerce integration, including custom roles.

Faculty and Instructor of Clarinet and Saxophone, *Cascade School of Music*, Bend, OR

Jan 2007 – Aug 2017

Front End Store Manager, *Newport Ave Market*, Bend, OR

Nov 2014 – Jul 2017

Customer Satisfaction Supervisor, *Albertsons*, Bend, OR

Nov 2007 – Sep 2014

EDUCATION

University of Oregon, Music Education. Eugene, OR 2004-2007

Self-taught programmer from a young age, with a coding bootcamp "finish!" Epicodus Portland, OR. 2017
AWS-certified Developer - Associate.