

DOUG HEADLEY

SENIOR SOFTWARE ENGINEER

SEATTLE, WA * DOUG@DOUGHEADLEY.COM * (415) 504-4070

SUMMARY

Experienced Senior Software Engineer with a focus on security, full-stack development, and automation. Adept at designing secure systems, building scalable APIs, and leading data-heavy solutions that streamline operations and enhance efficiency. Strong background in modern DevOps, cloud infrastructure, and software security principles. Skilled in translating complex business needs into secure, maintainable, and high-impact solutions.

TECHNICAL SKILLS

Languages: Python, Golang, Ruby, JavaScript, SQL

Frameworks: Flask, Ruby on Rails, React

Databases: Postgres, DynamoDB, Elasticsearch, MongoDB, Neo4j

Tools & Platforms: AWS (Lambda, S3, Cognito, EC2), Docker, Kubernetes, Okta, Azure, Jenkins, Git

Security: JWT, OWASP, CIS Controls, SDLC Security, Vulnerability Mitigation

EXPERIENCE

Infrastructure Engineer // Sureco; Seattle, WA (Remote)

04.2024 – 02.2025

- Led engineering efforts as data lead; published Python scripts to manage engineering tasks
- Increased productivity by automating large-scale data operations generating millions of SQL records
- Automated data synchronization between DynamoDB and Zendesk, significantly reducing manual entry
- Managed AWS-based pipelines (Lambda, S3, FTP) for automated external data exports
- Reconciled incongruent data types in data pipelines affecting downstream clients
- Built internal tools by converting CLI-based object-oriented (OO) scripts into Flask APIs
- Delivered executive analytics by integrating PostgreSQL, DynamoDB, and internal APIs
- Technologies: Postgres, DynamoDB, Cognito, AWS Lambda, Snowflake, S3, FTP

Software Engineer // Eliassen Group (Client: Pegasys Medical); Seattle, WA

04.2022 – 09.2023

Data analytics and insights for the healthcare industry

- Designed and built a “Dynamic Converter” ETL pipeline for varied hospital data ingestion
- Enabled AI model training by creating grammar logic for the data science team
- Owned backend APIs and matured code into OO components with test coverage
- Technologies: Golang, Python, Flask, Postgres, SQL, React

Senior Software Engineer // CoverMyMeds; Cleveland, OH (Remote)

05.2021 – 04.2022

Automating prescription requirements for doctors so they meet insurance guidelines for efficient approval

- Architected a migration strategy for Okta authentication platform for all high scale microservices, enabling seamless single sign-on (SSO) access
- Led dependency upgrade initiatives with improved test coverage
- Technologies: Ruby on Rails, microservices, Okta, Kubernetes, AWS, JWT tokens

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Senior Security Engineer & Consultant // Uber; San Francisco, CA (Remote) 07.2020 – 02.2021

- Automated vulnerability testing environments using isolated VMs
- Implemented semver patch automation for safe, non-breaking security updates
- Partnered with engineering teams to embed security into CI/CD workflows
- Technologies: Node.js, Golang, Ruby, Docker, Bash, MongoDB, Elasticsearch, Bazel

Security Consultant & Software Engineer // Milliman Inc; Seattle, WA 03.2020 – 06.2020

- Ensured PHI compliance through policy audits and CIS controls implementation in Azure
- Applied OWASP SAMM and DevSecOps practices across the SDLC
- Technologies: Azure, Ruby, Ansible

Senior Software Engineer // POSaBIT; Kirkland, WA 11.2018 – 10.2019

POS and Payment Processing services for cannabis retailers and dispensaries

- Developed secure payment library for Litecoin node
- Ensured compliance with state auditors by conducting triage of security vulnerabilities following OWASP guidelines
- Mentored junior developers across various software disciplines
- Collaborated with Android team to establish scalable API communications
- Created and implemented API integration software to effectively manage external services
- Technologies: Ruby on Rails, C#, Blockchain, Litecoin

Senior Software Engineer // G2 Web Services; Bellevue, WA 01.2017 – 07.2018

Web analytics platform for e-commerce compliance

- Led a seamless upgrade of G2's core B2B product, improving stability and user experience
- Delivered advanced reporting features, significantly enhancing client data insights
- Developed secure DevOps pipelines and integrated SSO for API/client authentication
- Maintained and optimized ETLs and microservices supporting key business workflows
- Built internal tools to validate reporting data during processing, improving data integrity
- Upgraded Elasticsearch for improved query performance and system scalability
- Championed test coverage initiatives across teams to improve software reliability
- **Technologies:** Ruby on Rails, Java, Elasticsearch, Hadoop, Apache Storm, Neo4j

CERTIFICATIONS

CISSP – Passed Exam (Associate of (ISC)² eligibility) *International Information System Security Certification Consortium*

EDUCATION

B.A., Public Relations // Washington State University; Pullman, WA