

# EUGENE SONG

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## SUMMARY

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Software Engineer with 2+ years of hands-on experience designing and implementing scalable backend architectures, secure API solutions, and cloud infrastructure for healthcare IT and modern web applications.

## CERTIFICATIONS

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**AWS Certified Solutions Architect – Associate, CompTIA Security+, CompTIA A+**

## SKILLS

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**Languages:** Java, Swift, Python, JavaScript/TypeScript, C/C++, SQL, HTML/CSS

**Frameworks & Libraries:** Spring Boot, Angular, Node.js, Express.js, React, SwiftUI, SAFe Agile, FastAPI

**Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, AWS S3

**Cloud & DevOps:** AWS, Terraform, Docker, GitLab, SonarQube

**API & Documentation:** Axway, OpenAPI/Swagger

**Analytics & BI:** Power BI, R

## EXPERIENCE

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**Software Engineer** | enGen, Remote

*May 2023 - Present*

- Designed and led the development of Spring Boot microservices for healthcare eligibility systems, improving scalability and reducing processing time by 40%.
- Engineered high-throughput Java REST APIs processing 2,000+ daily requests with average 200ms response time, maintaining 99.5% uptime SLAs.
- Led Angular upgrade from v8 to v19, modernizing workflows and reducing page load times by 40%, while decreasing client-side bugs by 30%.
- Lowered critical eligibility endpoint API response times from 850ms to 300ms by optimizing PostgreSQL database queries and implementing HikariCP connection pooling.
- Increased unit test coverage from 65% to 90% using JUnit and Mockito, supporting continuous HIPAA-compliant delivery pipelines.
- Participated in design reviews to assess feasibility and scalability of solutions; provided input on 3 long-term architectural initiatives.
- Integrated Splunk for observability, reducing average incident resolution time by 50% and improving operational insights.

## PROJECTS

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### SafeSave: Secure Password Manager

- Developed a secure application to manage passwords with enterprise-grade security measures and encrypted storage.
- Engineered secure RESTful APIs using Express.js, implementing bcrypt password hashing, two-factor authentication, and TLS encryption to protect against common vulnerabilities like brute force attacks.

### The Cloud Resume Challenge

- Deployed a scalable serverless website on AWS (S3, CloudFront).
- Automated infrastructure provisioning and CI/CD pipelines using Terraform and GitHub Actions.

## EDUCATION

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**Oregon State University**, Bachelor of Science, Computer Science (3.8 GPA)

*December 2023*

**California State University, Long Beach**, Bachelor of Science, Health Science

*June 2021*