

EUGENE SONG

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SUMMARY

Software Engineer with 2+ years of experience specializing in backend development, API design, and system optimization for healthcare and web applications. Committed to building scalable, high-performance systems that enhance reliability and deliver measurable business outcomes.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- CompTIA Security+
- CompTIA A+

SKILLS

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

Frameworks: Spring Boot, Angular, React, Node.js, Express.js, FastAPI, SwiftUI

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, BigQuery, Snowflake, Redshift, Databricks

Data Engineering / Pipelines: Apache Kafka, Apache Spark, AWS Kinesis, Apache Airflow

Cloud & DevOps: AWS, Terraform, Docker, GitLab, SonarQube, IBM MQ

Tools & Analytics: Power BI, Microsoft Excel, Swagger/OpenAPI, Axway

Machine Learning / AI: Hugging Face, LangChain

EXPERIENCE

Software Engineer - Backend & Analytics | enGen, Remote

May 2023 - Present

- Engineered scalable Java microservices with Spring Boot to modernize healthcare eligibility systems, increasing throughput and improving system responsiveness by 40% across millions of daily transactions.
- Directed full-stack modernization by upgrading Angular from v8 → v19, streamlining workflows and cutting page load times by 50%, while reducing client-side bug frequency by 30%.
- Accelerated healthcare eligibility APIs by optimizing PostgreSQL queries, refining indexing strategies, and restructuring backend logic, reducing response times from 850ms to 300ms and improving provider and member experiences.
- Architected a Python-based data automation pipeline integrating Microsoft Access, Excel, and Power BI, automating 37 advanced queries and formulas over 10K+ daily records, eliminating 8+ hours of manual work, and delivering a real-time Power BI dashboard that provided business stakeholders with actionable insights.

PROJECTS

The Cloud Resume Challenge

- Deployed a scalable serverless website on AWS (S3, CloudFront, Lambda, DynamoDB), processing thousands of requests with low latency.
- Automated infrastructure provisioning and CI/CD pipelines with Terraform and GitHub Actions, reducing deployment effort by 70%.

SafeSave: Secure Password Manager

- Developed a secure password management app with encrypted storage and RESTful APIs using Express.js.
- Implemented bcrypt hashing, 2FA, and TLS encryption to protect against brute-force attacks, increasing security posture by eliminating major OWASP vulnerabilities.

EDUCATION

Oregon State University, Bachelor of Science, Computer Science

December 2023

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

June 2021