Benjamin Peterson

Backend Software Engineer

SUMMARY

Oakland based software engineer with a passion for elegant and effective backend systems seeking a position that allows me to contribute meaningfully to a diverse team making world class innovative web services.

SKILLS

- Languages: Java | C++ | Python | SQL | Bash
- Frameworks & Libraries: Spring Boot | Micronaut | Web Reactive | AWS | SAM | Sendgrid | JPA | Hibernate | Postgres | Oracle SQL | Redis | TestNG | JUnit | Locust | Scrapy | Pandas | Flask
- Tooling and Deployment: Docker | Kubernetes | Jenkins | Gradle | Maven | Terraform | Git | Swagger
- Operating Systems: OS X | Linux | Windows
- Methodologies: Scrum | Agile | Jira | Shapeup | CICD | RESTful

WORK EXPERIENCE

Senior Backend Engineer - Notifications & Settings | Bill.com, San-Jose   2021 – Present

- Lead decomposition and re-architecting effort for the notification portion of a massive Java monolith, establishing an event-driven, serverless notification microservice that utilizes Java (Micronaut), AWS (lambda, SQS, SNS, RDS) and RESTful best practices used across two product segments and five internal teams.
- Implemented an email framework (Java factory pattern, Sendgrid) that dynamically populates user data, deep links, and HTML styling across over 100 distinct email templates determined by product segment for over six million emails per month.
- Developed, maintained, and wrote unit/integration tests for multiple user settings and preferences APIs.

Senior Software Engineer | Turnitin, Oakland   2018 – 2021

- Developed and maintained core Turnitin API (Java Spring Boot) used by thousands of internal and external clients, resulting in a new company revenue stream and securing multimillion-dollar usage contracts.
- Led a team of five engineers including machine learning specialists, frontend and backend developers, to implement a greenfield grammar service integrating with Google Docs and Turnitin's report viewer.
- Built an essay ingestion tool (Python AWS Lambda), processing and indexing over 100 million submissions.
- Developed internal microservice APIs for language translation (Java Web Reactive)
- Created and executed extensive load test suites (Python Locust) for services to ensure scalability and quality.

Software Engineer | VeriCite, Indianapolis   2017 – 2018

- Developed entirely new in-house web crawler (Python Scrapy AWS) which indexed and stored millions of commercial and academic web pages as plain text in S3.

Audio Engineer | Banff Centre, Alberta   2015 – 2016

- Recorded, mixed, and performed sound design on projects for resident artists at celebrated art center in genres including classical, indie, hip hop, and electronic.

EDUCATION

Software Engineering | Eleven Fifty Academy | Student Quality Award | 2017
Music Technology | Ball State, IN | Cum Laude | 2014