Julius Booth

Innovative and versatile software engineer with extensive experience implementing robust and scalable web apps and services. Interested in machine learning and cybersecurity.

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EXPERIENCE

Quokka.io, Remote — *Software Engineer II*

February 2024 - Present

Working on automated mobile app security testing.

Discovered multiple vulnerabilities in the flagship product. Created a vulnerability management process and added code scanning. Upgraded our SAML SSO implementation.

Led the development of two NodeJs microservices. (geolocation and SARIF analysis).

Diagnosed a recurring batch job that was blocking our main app event loop and fixed it by using worker threads. This saved users seconds on every visit to the webservice.

Optimized log search with indexing and shared components.

GenerationAI, Vancouver — *Lead Software Engineer*

June 2023 - January 2024

Engineered a real-time content-based recommendation engine using Python. Designed a robust but simple distributed architecture to handle live additions to the vector database.

Orchestrated backend development using Flask, Neo4J graph database, and Google Cloud App Engine, emphasizing automated pipelines and high test coverage.

Salesforce, Vancouver — *Senior Software Engineer*

September 2019 - June 2023

Built Tableau's Explain Data, a tool that uncovers and describes relationships in your data.

Led the development of two cloud microservices (C++, CMake, Golang) and their APIs.

SKILLS

Languages: Python, Javascript, C++, Golang, SQL

Frameworks: Express, Flask

Database Technologies: Postgres, Neo4J, MongoDB

Tools & Platforms: AWS, GCP, Azure, Docker, Kubernetes, Terraform, Kafka

Education

Master of Computer Science — *Simon Fraser University*

Graduated: July 2019

GPA: 4.11

Achievements: Two research papers published.

Python package published with 10 000+ downloads

BSC Chemical Biology —*University of British Columbia*

Graduated: August 2017

GPA: 3.85

Achievements: Dean's list