

# Julius Booth

Innovative and versatile software engineer with extensive experience in implementing and maintaining robust and scalable web applications and services.

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## EXPERIENCE

### **GenerationAI, Vancouver — Lead Software Engineer**

June 2023 - December 2023

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.

Enhanced system monitoring and observability using tools like Prometheus, Grafana, and AlertManager, providing deeper insights into service performance.

### **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.

Microservices had a 99.995% uptime under my watch due to proper implementation of authentication (gRPC, TLS), monitoring + alerting (Terraform, New Relic, Flink, Kafka), tracing (Splunk) and scaling (Kubernetes, AWS, Docker, Octopus). We were easily able to continue to maintain and add new features.

Trusted with multiple cross-team features and mentored five new team members/interns.

Contributed to Salesforce's Data Pipeline, an Apache Spark wrapper service.

## SKILLS

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

**Frameworks:** React, Flask

**Database Technologies:** Postgres, Neo4J, MongoDB

**Tools & Platforms:** AWS, Google Cloud, 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