

# Faesar Murad

faesalmurad@gmail.com

faesar.me

linkedin.com/in/faesalmurad

github.com/faesalm

## PROGRAMMING SKILLS

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**Languages:** Go, Python, Java, C++, Bash, C, SQL, JavaScript

**Frameworks and Tools:** Git, App Engine, Cloud Pub/Sub, gRPC, Stubby, Docker, Selenium, React, GCP

## EXPERIENCE

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### Google

Sunnyvale, CA

Software Engineer, Site Reliability

Jan. 2021 - Present

- Developed monitoring tools for Google's Virtual Private Clouds using **Monarch** and **Python**, resulting in increased service availability
- Onboarded new control-plane components for global internal services using **Python** and internal cluster management tools, resulting in a streamlined cross-team deployment
- Acted as a Project Advisor to provide technical guidance for Google SPS, a program where students build a web application using **GCP**, **Java**, and **JavaScript** in 8 weeks
- Acted as a primary respondent for Tier 1 on-call rotations to ensure services are reliable 24/7

### Google

Sunnyvale, CA

Software Engineering Intern

Feb. 2020 - May 2020

- Developed an automated debugging framework to analyze system failures during on-calls using **Go**, **Stubby**, and **Cloud Pub/Sub**, reducing incident resolution time
- Implemented multi-threaded resource libraries in **Go** and **Dremel** to collect distributed metrics
- Optimized internal monitoring infrastructure by eliminating redundancies in cross-functional libraries

### Bold Commerce

Winnipeg, MB

Software Developer Intern

May 2019 - Aug. 2019

- Created highly scalable microservices to serve over 100,000 merchants using **Go** and **Docker**
- Implemented REST APIs to create and manage draft orders on various e-commerce platforms using **Go**
- Designed new storefront widget prototypes for event creation and ticket distribution using **React**

### Tantalus Systems

Vancouver, BC

Product Verification Tester

Jan. 2017 - Dec. 2017

- Developed test scripts using **Selenium WebDriver**, **Python**, and **Jenkins** to verify new functionality
- Automated report generation processes for key customers using **VBA**, decreasing delivery time by 60%
- Incorporated new message handling features for network simulations using **Python** and **Bash**

## PROJECTS

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### Loan Default Risk Analyzer

May 2020 - Aug. 2020

- Developed a machine learning model to predict loan default risk by feature engineering critical attributes. Trained model with **LightGBM** and **Python**, resulting in 76% validation accuracy on new samples

### Google SPS

Mar. 2019 - May 2019

- Designed and implemented a web application for finding compatible roommates using **Java**, **JavaScript**, and leveraging **Cloud Datastore** to store user profiles

## EDUCATION

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### University of Victoria

Victoria, BC

B.Sc. in Computer Science, With Distinction (GPA: 3.8/4.0, Dean's List)

Dec. 2020

- Undergraduate Research in Parallel Skyline Groups Computation
- Teaching Assistant, Software Development Methods