

# Faesar Murad

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## EDUCATION

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### University of Victoria

B.S. in Computer Science (GPA: 3.8/4.0)

Victoria, BC

Dec. 2020

- Vice President - Engineering Student Society (2019)
- Relevant Coursework: Data Mining, Artificial Intelligence, Systems Analysis, Security Engineering, Data Structures and Algorithms, Data Compression, Cognitive Augmentation, Database Systems

## EXPERIENCE

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### Google

Software Engineering Intern

Sunnyvale, CA

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

Software Engineering Intern

Winnipeg, MB

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**

### University of Victoria

Teaching Assistant, Software Development Methods

Victoria, BC

Sept. 2018 - Apr. 2019

- Instructed 60 students on software development methodologies in **C** and **Python**
- Created scripts to prepare student assignments for marking using **Bash**, decreasing marking time by 30%

### Tantalus Systems

Product Verification Tester

Vancouver, BC

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 and training with **LightGBM** and **Python**, resulting in 76% validation accuracy on new samples

### Google SPS Developer

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

### Engineering Robotics Competition - First Place Winner

Jan. 2019 - Mar. 2019

- Built and programmed an autonomous VEX robot to tether cables to moving IR beacons using **C**. Winner of first place out of 150 teams

## 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, GDB