Faesal Murad

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Education

University of Victoria — Victoria, BC
B.Sc. in Computer Science (GPA: 3.8/4.0) — 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

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 Engineering 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**

University of Victoria — Victoria, BC
Teaching Assistant, Software Development Methods — Sept. 2018 - Apr. 2019

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

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

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 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

Languages: Go, Python, Java, C++, Bash, C, SQL, JavaScript
Frameworks and Tools: Git, App Engine, Cloud Pub/Sub, gRPC, Stubby, Docker, Selenium, React, GDB