Faesal Murad

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250.634.3310

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

Experience

Google Sunnyvale, CA
Software Engineering Intern, Google Cloud 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
- Created multi-threaded resource libraries in **Go** to collect endpoint metrics based on failure points
- Optimized internal monitoring infrastructure by eliminating redundancies in cross-functional libraries

Bold Commerce Winnipeg, MB
Software Engineering Intern, Infrastructure 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 scripts to prepare student assignments for marking using **Bash**, 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

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
- Improved management skills by doing biweekly rotations to serve as a Project Manager

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**
- Optimized speed by dynamically adjusting torque and course-correction mechanism using **C**, resulting in the fastest robot out of 150 teams

Battlesnake - Bounty Snake Winner Aug. 2018 - Jan. 2019

- Spearheaded the development of an AI snake using **Python** to compete in the national hackathon
- Optimized code to achieve 15ms response time through efficient graph analysis algorithms

Education

University of Victoria Victoria, BC
Bachelor of Science in Computer Science (GPA: 3.8/4.0) Dec. 2020