

MICAH LAU

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TECHNICAL WORK EXPERIENCE

FORM Athletica

May 2021 - Dec. 2021

Software Development Engineer in Test Intern (Embedded Systems)

Vancouver, BC

- Developed multi-threaded automation scripts for testing device firmware with Python and Bash that dealt with time sensitive command execution and limited memory, then setup scripts as Jenkins jobs
- Refactored company legacy code and developed scripts to test interactions, such as BLE file transfers and compression, between the device and our mobile apps or various web APIs/company databases using Appium, Selenium, and Postman/Newman
- Leveraged tools such as CoolTerm, OpenOCD, and a ST-Link to flash new firmware builds and inspect UART logs to debug firmware issues

PROJECTS

Federal Court Case Management System

Feb. 2021 - Apr. 2021

- Collaborated with 3 teammates to build a web application that will serve as the Federal Court's Vancouver office's proposal for a new case management system
- Developed the front end with vanilla HTML/CSS/JS and used Flask to connect to our back end
- Integrated a MySQL database as our back end and performed database normalization

Practical Parent Android app

Oct. 2020 - Dec. 2020

- Developed an Android app with Java in a team of 4, that aims to aid parents with raising children through features such as guided (visual and audio) meditation, a chore/task tracking system, and more
- Implemented a Scrum development process over 3 iterations which allowed for the opportunity to experience a complete software development life cycle, from requirements engineering to product maintenance

TECHNICAL SKILLS

Languages

Python, C++, C, Java, Javascript, Bash, RISC-V Assembly, Swift, HTML/CSS

Technologies & Tools

Git, CI/CD (Jenkins, Travis), Google Play Console/App Store Connect, SQL and MySQL, MATLAB, LaTeX, ST-Link, Jira, QMetric

Operating systems

Windows 10, Mac OS (Big Sur), GNU/Linux (Ubuntu)

NON-TECHNICAL WORK EXPERIENCE

Burnaby Barracudas Summer Aquatics Club

May 2020 - Aug. 2020

Co-Head coach, Director of Competitive groups, Senior group lead coach

- Managed all 3 competitive groups which involved working with 50+ swimmers and 2 other coaches
- Planned and supervised two competitions that abided by BC's COVID-19 provincial health regulations
- Received excellent feedback from parents and club administration about initiative, leadership, and communication skills

Burnaby Barracudas Summer Aquatics Club

May 2019 - Aug. 2019

Intermediate group lead coach

- Implemented a weekly newsletter program within the club to keep members up to date
- Received excellent feedback from parents highlighting organization and time management skills

EDUCATION

Simon Fraser University

September 2018 - Present

B.Sc Computer Science. Business Minor. SFU Men's Varsity Swimming alumni.