

# MICAH LAU

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## TECHNICAL WORK EXPERIENCE

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### FORM Athletica

May 2021 - Dec. 2021

*Software Development Engineer in Test Intern (Embedded Systems)*

*Vancouver, BC*

- Developed automation scripts and refactored company legacy code with Python and Bash, primarily to test the device firmware, and ran the scripts using Jenkins. Occasionally 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

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### 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

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### Languages

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

### Technologies & Tools

Git, ST-Link, MATLAB, CI/CD (Jenkins, Travis), SQL and MySQL, LaTeX, Microsoft Office suite

### Operating systems

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

## NON-TECHNICAL WORK EXPERIENCE

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### 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 and administrators highlighting organization and time management skills

## EDUCATION

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### Simon Fraser University

September 2018 - Present

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