MICAH LAU

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TECHNICAL WORK EXPERIENCE

FORM Athletica   May 2021 - Dec. 2021

Software Development Engineer in Test Intern (Embedded Systems)

· Developed multi-threaded automation scripts for testing device firmware with Python and Bash that dealt with time sensitive command execution and limited memory, then set up scripts as Jenkins jobs
· Developed scripts to test interactions between our mobile apps and our internal REST API, 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

X Swim Team API and iOS app   Oct. 2021 - Present

· Developed a REST web API using Python and Flask-RESTful, along with a MySQL database, that stores information used by swim teams
· Developing a MVVM iOS app for coaches and swimmers that uses this API to perform tasks such as updating a swimmer's main event

Federal Court Case Management System   Feb. 2021 - Apr. 2021

· Developed a web application, in a team of 4, 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 using MVC with Java in a team of 4, that aims to help 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), SQL and MySQL, MATLAB, Flask, Bootstrap, Newman/Postman, LaTex, JUnit5, Appium, Selenium
Operating systems	Windows 10, Mac OS (Big Sur), GNU/Linux (Ubuntu)

NON-TECHNICAL WORK EXPERIENCE

Burnaby Barracudas Summer Aquatics Club

Co-Head coach, Director of Competitive groups, Senior group lead coach   *May 2020 - Aug. 2020*

· 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

EDUCATION

Simon Fraser University   September 2018 - Present

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