

AIDAN MEHARG

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SKILLS

Programming Languages	• Python • C/C++ • bash • SQL • Java • Swift • R • TypeScript • HTML
Tools & Technologies	• Git • Jenkins • GDB • adb • AWS • GraphQL • REST APIs • Linux • Windows • Jira
	• NVMe • TCP/IP • Firebase SDK • PyTest • selenium • React.js • ffmpeg
Development Practices	• CI/CD • Agile Development • Code Review • OOP • Technical Documentation

EDUCATION

University of British Columbia

BSc | Combined Major in Computer Science & Statistics | Sep 2020 – Dec 2025

- CGPA: 4.0/4.3 (Dean's Honour List)

WORK EXPERIENCE

NETINT Technologies Inc. | Burnaby BC, Canada | Jan – Aug 2025

Firmware Engineering Intern

- Built and maintained integration pipelines for firmware and software releases of the Quadra VPU product line (video transcoding ASIC using NVMe protocol over PCIe).
- Worked with software, firmware, hardware, and physical verification teams to create test coverage for critical features including: power draw performance, backwards compatibility, and core transcoding features.
- CI/CD with Jenkins and Apache Groovy scripting, managed hosts of various configurations including: Linux, Windows, Android, and Kernel-based Virtual Machines (KVM).
- Worked with industry leading media processing frameworks: ffmpeg and gstreamer

Rivian Automotive | Vancouver BC, Canada | Jan – Aug 2024

Software Engineering Intern

- Developed and maintained automated tests for the Rivian mobile app using Python, pytest, Appium, vehicle hardware, and GitLab CI/CD pipelines.
- Collaborated with cross-functional teams to design and implement robust test plans.
- Designed and implemented an *automated battery consumption testing solution*, increasing data collection capabilities by over 500% compared with the previous process.
 - Sourced hardware, created project proposals, provided detailed resource estimates to management.
 - Automated a complex end-to-end test with the use of vehicle hardware, mobile devices, and custom hardware to save over 20 hrs of developer time per release cycle and ensure consistency across releases.
 - Built a custom result upload pipeline for efficient data analysis and access to specialized power logs.
 - Authored documentation to facilitate knowledge transfer and long-term maintainability.

TECHNICAL PROJECTS

Jaffhour – iOS Time and Expense Tracking App | [View on GitHub](#)

- Mobile app for iOS built with Swift/SwiftUI for managing records and optimizing the invoicing process.

Spotify Song Genre Prediction | [View on GitHub](#)

- Worked in a team of 4 to investigate performance of kNN models for predicting song genres using audio features provided by the Spotify API. Achieved 38.9% improvement in accuracy over majority classifier.

Personal Website | [View here](#)

- Created my portfolio website using JS, HTML, and CSS. Integrated Google firebase analytics.

ADDITIONAL INFORMATION

Other Experience • *Contractor's Assistant* – Stuart Sproule Design & Build (2021 - 2023)

- *Mover* – You Move Me Vancouver (2019 – 2020)

Interests • Piano (Playing + composing for 12+ years) • Saxophone • Rugby • Hiking • Woodworking