

JOSHUA MACHADO

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EDUCATION

Bachelor of Science in Computer Science

Sep 2020 – Dec 2024

University of Victoria (3.7 / 4.0 GPA)

Victoria, BC

- Fairfax Financial Ltd. Award - Full Ride \$24,000
- University of Victoria Entrance Scholarship - \$3,000

EXPERIENCE

Software Engineer Intern

May 2023 – Sep 2023

Tradable Bits

Vancouver, BC

- Enhanced the GameTime web app for Maple Leaf Sports & Entertainment group, working closely with their product development team, taking ownership of features and delivering them to high-quality standards
- Developed and maintained Python, Javascript, and SQL codebase for various projects using the Flask framework, the Underscore.js and Jinja libraries, utilizing HTTP protocol options to ensure optimal data handling
- Worked in a UNIX environment, developing mobile web apps using websockets with the socket.io library for enhanced user experience

Agile Developer Intern

Jan 2022 – Sep 2022

SAP (2 Term Placement)

Vancouver, BC

- Created an automatic system setup job cutting 1-2 days of manual configuration down to 30 minutes using REST API collections and OAuth with UAA to verify the pseudo-service
- Automated and assigned ownership of 34,000+ files to different teams making the process take 95% less time by utilizing Python and Bash with Git
- Designed and produced a Jenkins job to load dummy users onto systems, tested by loading 1,500,000 users at over 10,000 users per hour with peak load and stability using public and internal REST APIs
- Managed GIT branch for 10 teams of 12 developers, maintained two merges every day through monitoring Jenkins CI/CD Pipelines and reverting regressions

SKILLS & ABILITIES

Languages & Libraries : Python, Java, C, Underscore.js, Jinja, Socket.io

Tools & Frameworks : Git, Jenkins, Flask, React, Jira, VIM, Kali/Linux

PROJECTS

VikeLabs CourseUp - Web Development Team

Jun 2021 – Present

courseup.vikelabs.ca

- CourseUp is an improved alternative course-building tool used by thousands of students
- Implemented a course requisite section, displaying nested react components
- Adjusted the scheduling page to dynamically change size based on courses added
- Develop new features and maintain the integrity of code through bug fixes using TypeScript and React.js

VikeSec - CyberSecurity Club

Sep 2022 – Present

Executive Member

- Hosted VikeCTF 2023, an inaugural cybersecurity competition with over 1000 participants
- Run weekly meetings to teach newcomers to the cybersecurity space, as well as provide new resources for all
- Provide a safe environment for all to get hands-on experience with the latest tools for red and blue team activities. Create challenges in the cloud and cryptography areas for people to learn

VOLUNTEERING

Engineering Faculty Community Moderator

Sep 2020 – Present

Discord

- Oversee 4500+ students in an online environment, ensuring it is a safe space and accessible for all
- Provide help and resources to students, upholding university integrity policies