Marie Samantha Fidelia

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EDUCATION

The University of British Columbia — September 2022 - May 2027
BSc Major in Computer Science, specialization in Software Engineering — *Vancouver, BC*
GPA: *84.6%, Dean's Honours List*

EXPERIENCE

Software Developer Intern — September 2024 - April 2025
SAP Concur — *Vancouver, BC*
- Concur Expense team.

Software Test Engineer Intern — May 2024 - August 2024
WillowTree (TELUS International) — *Vancouver, BC*
- Developed and documented **over 300** UI automation and unit tests for both Android and iOS components using Jetpack Compose in Kotlin and XCTest in Swift, enhancing code coverage by **20%**.
- Conducted comprehensive regression testing using QTest, identifying and resolving **5** critical bugs over platform version upgrade.
- Improved pipeline efficiency by **26%**, reducing build time from an average of **34** minutes to **25** minutes.
- Effectively contributed to agile practices as a developer, helping the team increase **60%** in sprint velocity from an average of **25** points to **40** story points.
- Engaged in Agile practices such as client demos, sprint planning, and won 1st place in a company-wide Hackathon.

Computer Science Teaching Assistant — September 2023 - April 2024
University of British Columbia — *Vancouver, BC*
- Lead weekly lab sections, conduct course team meetings and assessment grading, and provide one-on-one assistance through complicated programming design challenges in CPSC 110 & CPSC 107 (Systematic Programming).
- Obtained a **99.7%** average satisfaction rating based on student feedback from lab sessions.

TECHNICAL PROJECTS

SHERBLOCK - [Stanford TreeHacks'24] | *Next.js, Solidity, HardHat, ZKP* — Feb 2024
Demo | GitHub

- Solo developed a full-stack decentralized web 3.0 platform for crowd-sourcing information gathering (OSINT) to help solve missing person cases.
- Deployed the blockchain network to Caldera's (ETH) and Avalanche Fuji's (AVAX) chain with zero-knowledge proofs, ensuring tamper-proof handling of sensitive information and enabling secure cryptocurrency transfers.

QuickSort - [HackHarvard'23] | *React Native, TypeScript, Node.js, PyTorch, PostgreSQL* — Oct 2023
Demo | GitHub

- Created a mobile app that utilizes computer vision to categorize items based on their recycling labels, with the integration of Maps API to display nearby recycling center locations, and a data visualization feature.
- Trained deep learning model with over 20k+ images, achieving an accuracy rate of 95%.

Expireminder | *Java, JUnit, JSON, SWING GUI* — Jan - April 2023
GitHub

- Built an expiry date notifier desktop application with Java.
- Implemented both console-based UI and graphical UI with the Java SWING library.
- Managed data reading and writing with JSON objects.

TECHNICAL SKILLS

Languages: Java, JavaScript, Kotlin, Solidity, R, C#, C++
Front-end: React.js, Next.js, React Native, Tailwind CSS
Back-end: Node.js, Express.js, TypeScript
Frameworks: npm, HardHat, Tidyverse, Tidymodels, Jetpack Compose
Testing: Cypress, JUnit, Compose Test
Others: Git/GitHub, Jira, Confluence, QTest, Jupyter Notebook, Unity, Android Studio