

# MARIAM AYUBI

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## EXPERIENCE

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### Amazon Web Services, Vancouver, BC

May 2024 – Aug 2024

#### Software Developer Intern

- Designed and implemented a predictive capacity forecast for the SQS Frontend team utilizing Kotlin, Python, and Ruby to optimize resource allocation for peak events (Prime Day, Black Friday, etc.) based on historical traffic and the capacity model, resulting in improved system performance and cost efficiency
- Developed a full-stack capacity forecasting solution from design to completion, including architecture design, coding, data engineering (Amazon RDS, S3, Lambda), machine learning (Amazon Forecast), and visualization (CloudWatch), delivering actionable insights for capacity planning

### Visier, Vancouver, BC

Jan 2023 – Aug 2023

#### Software Developer Intern

- Resolved 95+ tickets, addressing bugs in the enterprise solution Visier People with Scala, JavaScript, and Angular, and crafted customer-facing features for Smart Compensation using Kotlin, PostgreSQL, TypeScript, React, Tailwind CSS, and Material UI
- Delivered high-impact features for Smart Compensation, including the backend logic for a complex new bonus pay workflow with intricate calculations, within tight deadlines

### Sierra Wireless, Richmond, BC

Jan 2022 – Aug 2022

#### Software Test Engineer Intern

- Conducted firmware and driver validation for 5G IoT modules across Windows and Linux
- Developed automated test scripts in Python using libraries, such as PyWin32 to enhance product quality

## TECHNICAL PROJECTS

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### Bring It Up

Sep 2022 – Aug 2023

- Collaborated with 15 other team members to develop a web application that enables students to find the mental health and counseling services that best suit their needs
- Implemented UI components for the application using React.js, TypeScript, Material UI and react-router-dom to enable users to view the different services available

### insightUBC

Sep 2022 – Dec 2022

- Built a web application to query UBC's metadata in a team of 3 using agile and test-driven development
- Constructed a query engine using EBNF and a RESTful API to support list and aggregate queries using Node.js and TypeScript and thoroughly tested the application using Mocha and Chai

## EDUCATION

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### University of British Columbia, Vancouver, BC

Sep 2019 – Dec 2024

Bachelor of Science, Major in Computer Science

## SKILLS

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Languages: Java, TypeScript, Kotlin, Scala, JavaScript, Python, R, C++, C

Technologies: Git, Bitbucket, Jira, Confluence, HTML, CSS, React, Node.js, Material UI, Angular, Tailwind CSS, JUnit, Bash, Java Swing, npm, yarn, Mocha, Chai, Mockito, Mockk, Cypress, PostgreSQL, AWS