Iftier Rahman

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EDUCATION

University of Toronto

Toronto, ON

Bachelor of Applied Sciences in Computer Engineering, PEY Co-op

Anticipated Graduation Date: April 2026

Relevant Courses: Operating Systems, Linear Algebra, Calculus, Software Design and Development, Object-Oriented Programming, Data Structures and Algorithms, Computer Organization, Applied Deep Learning

Awards: Recipient of Amazon Future Engineer Scholarship worth \$30,000

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, C, HTML, CSS, Bash, Z shell

Tools: AWS, Git, UI/UX, CI/CD, Agile, Firebase, APIs, NodeJS, OpenCV, Docker, Linux, Scripting Libraries/Frameworks: JUnit, Mockito, TestNG, NumPy, Matplotlib, Pandas, Pytorch, CUDA

Experience

Amazon Web Services

May 2024 – August 2024

Software Development Engineering Intern

Vancouver, BC

- Architected and scaled a distributed workflow orchestration using AWS Step Functions, running up to 3,000 concurrent Lambdas to backfill 350+ million schedules in DynamoDB with new field across multiple regions
- Deployed and automated workflow orchestration infrastructure using **AWS CDK** and **CloudFormation** in **Typescript**, while leveraging **CloudWatch alarms and logs** to monitor updates, throttling, and failures
- Conducted **canary testing** in different environments using **TestNG** and **JUnit**; implemented robust security and permissions for internal **Java REST API**, ensuring secure, reliable performance across all environments.
- Authored a **comprehensive runbook** documenting the project, including troubleshooting steps, best practices, and monitoring strategies for **on-call engineers**

Amazon Web Services

May 2023 – August 2023

Software Development Engineering Intern

Vancouver, BC

- Developed internal Java REST API to list schedules by target for AWS Eventbridge Scheduler, utilizing a new target field for customers to efficiently retrieve schedules by target.
- Optimized **DynamoDB** data retrieval with a **Global Secondary Index (GSI)** based on the target field for targeted schedules, leading to a **30x** performance increase over filtered scan API calls
- Conducted unit testing using JUnit and Mockito for the internal Java REST API, achieving 98% code coverage and ensuring validation of the API functionality
- Updated existing **REST APIs** to ensure created and updated schedules are populated with the target field in **DynamoDB**, enabling **100%** schedule retrieval of new schedules by the internal API

PROJECTS

ReLive | HTML, CSS, Javascript, Firebase, Cohere API, OpenAI API, Python, Google Cardboard

- Created a VR photo album where users can explore their photos in 360° using Google Cardboard for UoftHacks 11
- HTML, CSS, JavaScript used to develop front-end, Panolens.js for VR experience, & Firebase for data storage
- Cohere and OpenAI APIs used to suggest songs based on ambiance of a photo for personalized experiences.

Pop-up Vaccine Clinic Locator | HTML, CSS, Javascript, Figma, Beautiful Soup, Selenium

- Over 500+ users, displays all eligible pop-up & hospital clinics, given the first three digits of a user's postal code
- Built a web scraper using **Beautiful Soup** and **Selenium** to gather and format clinic data from **20+ sources**
- Created based on personal experience with long lines, iterated on feedback through community consultations

RookieXplore $\mid C++$. OpenStreetMap API, GTK

- Led a 3-member team to develop a map application using the **OpenStreetMap API**, providing route planning and location search features for new university students.
- Optimized routing algorithms with A*, Dijkstra's, and Multi-Dijkstra, achieving a 50% reduction in route calculation time and 30% faster performance through multithreading.
- Designed an intuitive user interface with labeled information and dynamic previews, improving usability based on feedback from user testing.