

Arun Atchuthanathan

Toronto, ON | 647-929-3426 | aatchuth@uwaterloo.ca | arunatchu.tech | /in/arun-atchu/

WORK EXPERIENCE

Incoming Software Engineer Intern

Meta

Menlo Park, CA

Fall 2025

Software Development Engineer Intern

Amazon Web Services (AWS)

Toronto, ON

May 2025 - Present

- Rebuilt Control Plane canary test system to monitor and validate all DocumentDB cross-region replication functionality\
- Restructured monolithic Cloudformation design into modular cross-region networking resource stacks using AWS CDK
- Authored and pitched a 15-page technical system redesign, gaining 100% cross-team approval from senior engineers
- Implemented and testing prototype; eliminating false-positive error alarming and reducing high-severity tickets by 20%

Software Engineer Intern

X (Twitter)

New York, NY

January 2025 - April 2025

- Implemented timeline feature upgrades using latest Kotlin frameworks for X Android app with 300+ million monthly users
- Built lightweight Lists feature with Kotlin and GraphQL, enabling users to create, follow, pin, and share custom timelines
- Added new DM system messages and login/registration flows, driving V1 changes in the ongoing X-lite app deployment
- Expanded unit/UI testing for new and legacy code and refactored data models to improve maintainability in 30+ modules

Software Engineer Intern

RouteThis

Kitchener, ON

May - August 2024

- Implemented mobile upgrades on the Certify app for network technician users; Increased AWS storage efficiency by 50%
- Published framework changes to stabilize wifi measurements with 98% accuracy and detect roaming events from data
- Led and designed a Kotlin path tracing prototype from scratch, with sensor fusion to eliminate customer calibration issues

Android Developer Intern

Innovapost (acquired by Deloitte)

Toronto, ON

September - December 2023

- Implemented QR scanning and accessibility features for Canada Post Android application with over 1 million downloads
- Researched and facilitated Kotlin code migration to use KSP processing tool - reducing development build times by 50%
- Developed new menu layout and navigation, noted in 50+ 5 star ratings in the week after release on the Google Play Store

Software Developer Intern

Infor

Remote

January - April 2023

- Created a new Kotlin logging system to monitor and interpret internal service data in the Workforce Management app
- Optimized codebase by refactoring data logging and upgrading Java features to Kotlin, reducing execution times by 70%
- Developed aspect-oriented blacklist privacy system with Spring Boot and Postgres to filter sensitive data 5 active services

Software Quality Assurance Engineer Intern

AlertDriving

Toronto, ON

May - August 2022

- Collaborated with both Development & QA teams to enable TDD for new Javascript features in user-facing web app
- Validated backend optimizations to improve processing speeds by 30% for batch updates of 10,000+ concurrent users
- Optimized cron job scheduling and fixed PHP email scripts, preventing 5000+ overlapping client emails sent per month

TECHNICAL SKILLS

Languages: Python, C++, C, Java, Kotlin, Swift, Javascript, Typescript, HTML/CSS, C#, Scala, Git, SQL, R

Tools: TensorFlow, PyTorch, Flask, Spring, React, Angular, MongoDB, PostgreSQL, Firebase, AWS, Docker

EDUCATION

University of Waterloo

Bachelor of Computer Science | Artificial Intelligence Specialization

Waterloo, ON

Expected April 2026

- **GPA:** 94.79%
- **Courses:** Intro to A.I., Intro to Machine Learning, Data Structures & Data Management, Algorithms, User Interfaces