


Jinha Kim

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Github 

Portfolio 

SKILLS

Programming Languages

Java, JavaScript, TypeScript, Python, SQL, C, C++, HTML5, CSS

Frameworks & Tools

React, Angular, Node.js, Spring, Django, Express.js, AWS, Redis, MongoDB, MySQL, Firebase, OpenShift, Docker

EDUCATION

University of Waterloo

Computer Engineering, Honors | GPA: 4.0 | Dean's Honors Student

Waterloo, Ontario

Class of 2026

WORK EXPERIENCE

Snowflake

Software Engineer Intern

Bellevue, Washington

September 2025 - December 2025

- Revamped the System for Cross-domain Identity Management's (SCIM) authentication flow, adding support for modern identity providers (External OAuth, WIF, PAT) to eliminate manual token rotation and improve operational efficiency.
- Optimized session performance by caching Snowflake network policy evaluations, reducing latency and improving throughput.
- Improved SCIM reliability by enhancing structured logging, expanding test coverage, and standardizing lifecycle timestamps across events (e.g., account creation, password reset, and deactivation) to eliminate inconsistencies between service-recorded and user-visible data.

Capital One

Full Stack Software Developer Co-op

Toronto, Ontario

January 2025 - April 2025

- Reduced manual QA effort and operational costs by **60%** for testing by automating test scheduling and reporting using a fully serverless architecture—developed with **TypeScript** and **Amazon CDK** leveraging **AWS Lambda**, **SQS**, and **SNS**—resulting in fewer human error and more reliable test coverage.
- Redesigned **55%** of customer-facing pages (~250K monthly visitors), including a key CTA page, in collaboration with the design team—resulting in a **7.5% increase** in conversions to the application page through improved UX, A/B testing, and component optimization.

RBC

Software Developer Co-op

Toronto, Ontario

January 2024 - April 2024

- Engineered and released a new secure client onboarding experience for RBC's tokenization manager, **reducing onboarding time by 98%**, leading backend architectural API decisions, and building intuitive UX with **Spring** and **Angular**.
- Convinced team leadership about the security and usability advantages of custom Passkeys integration over externally sourced alternatives through development of a mobile app prototype with **Flutter**.
- Saved company-wide developer time by designing an **Angular** project template that enhanced maintainability and streamlined deployment processes.

Untether AI

Systems Software Developer Co-op

Toronto, Ontario

September 2022 - December 2022

- Solved complex hardware-software integration challenges to develop robust chip socket connection, socket configuration, receive interrupt handling, and data transmission.
- Rapidly learned firmware development and CLI command design to independently implement multi-bank read/write operations and packet initialization features, creating a linker script and makefile to generate ELF files, ensuring seamless testing and hardware compatibility.

Onsemi

Software Tools Developer Co-op

Waterloo, Ontario

January 2022 - April 2022

- Improved hearing aid performance by maintaining Bluetooth Low Energy power at 8 dBm for better signal stability and battery life, while fixing watchdog refresh issues to ensure reliable operation.
- Optimized the development workflow by designing a headless build process with **Python**, integrating the Keil IDE to streamline project building, debugging, and flash downloads.