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   **Waterloo, Ontario**
Computer Engineering, Honors | GPA: 4.0 | Dean's Honors Student   *Class of 2026*

WORK EXPERIENCE

Capital One   **Toronto, Ontario**
Full Stack Software Developer Co-op   *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 **40%** 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   **Toronto, Ontario**
Software Developer Co-op   *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   **Toronto, Ontario**
Systems Software Developer Co-op   *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   **Waterloo, Ontario**
Software Tools Developer Co-op   *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.

PROJECTS

Rendezvous Radar   *Django, Torch, Pandas, Python, React, TypeScript*
- Designed and delivered a full-stack application enabling users to find points of interest through activity categories or natural language prompts, leveraging machine learning for relevant results.
- Learned and applied fine-tuning techniques for the **DistilGPT2** large language model using **Python** and **Torch** to classify user input into points of interest, optimizing hyperparameters to achieve accurate and reliable results for diverse queries.

Basketball Court Finder   *Spring, MySQL, Java, React, TypeScript*
- Built a location-based app to discover and review basketball courts, using the **OpenStreetMap API** for map rendering and court data, and the **Nominatim API** for geocoding and reverse geocoding user locations.