

CHARLIE KIM

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Education

University of Alberta - *BSc. in Computer Science Specialization - GPA: 3.7* *Sept 2021 - April 2024*
Web/Mobile development, DevOps, Machine Learning, Operating Systems, Networks, Management Science

University of Helsinki - *Full Stack Open Certification* *Jun 2024 - Aug 2024*

Professional Experience

Full Stack Developer - *ABC Head Start Society* *Jan 2024 - June 2024*

- Built a full stack web platform in React & MySQL that enabled 10,000+ users to browse and share multilingual audiobooks.
- Developed a custom driver in TypeScript to stream audiobook data into a smart pen allowing students to playback their books in numerous languages.
- Created a comprehensive stress & fault testing framework using SonarQube, Selenium, PyTest & JMeter resulting in over 80% code coverage and 0% downtime during peak load.
- Implemented a CI/CD pipeline which deployed containerized frontend & backend applications onto cloud servers with <2min deploy times.

Software Engineering T.A. - *University of Alberta* *Sept 2023 - April 2024*

- Led and mentored 4 teams of students to meet with stakeholders, develop a full stack Android application, and present their successful solutions ahead of project deadline.
- Taught classes with 400 students Object Oriented Programming, Android app development, and engineering best practices with positive feedback from both professor and students.
- Created instructional Java applications with detailed documentation which allowed students to effectively learn Java development and debug their own programs.

Python Automation Developer - *Save-On-Foods Grocery Store* *Aug 2020 - Jul 2021*

- Developed Python automations that analyzed historical purchase data and forecasted order demand saving over \$3000 monthly for the business in operating costs.
- Maintained and grew relationships with business stakeholders and suppliers through personalized customer solutions.
- Managed and mentored 10+ employees in day to day retail work resulting in increased customer satisfaction.

Projects

Music Streaming Discord Bot - *NodeJS, NoSQL, Google API, Weather API*

- Interactive bot providing music streaming services and 10+ other integrations to over 400 Discord servers with <50 ms latency

Android QR Code Game - *Java, Firebase, Android Studio* - [Project Link](#)

- Android game where players scan and collect digital “monsters” generated from QR codes.

Realtime Chat Application - *Golang, Echo, HTMX, AlpineJS* - [Project Link](#)

- Chat app where users can create group discussions, leveraging Golangs powerful concurrency.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL, Go, ASM, R, Matlab

Technologies: Git/Github, Docker, React, NextJS, Django, NodeJS, Unix, Android, Gradle, MongoDB, Excel