

CHARLIE KIM

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Education

University of Alberta - *Computer Science Specialization*

Sept 2021 - April 2024

Coursework: Web development, DevOps, software testing, machine learning, operating systems, networks, mobile development, OOP, databases, algorithms, statistics, linear algebra/calculus, management science

Technical Skills

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

Technologies: Git/Github, Docker, React, Next.js, Django, Node.js, Unix, Android, Gradle, MongoDB, Excel

Professional Experience

ABC Head Start Society - *Full Stack Developer*

Jan 2024 - June 2024

- Develop web interface for multilingual audiobooks for thousands of teachers and students
- Create automated testing framework, CI/CD pipeline, and comprehensive documentation
- Use Next.js, Tailwind, Django, MySQL, Docker, and cloud-based hosting solution

University of Alberta - *Software Engineering T.A.*

Sept 2023 - April 2024

- Grade and advise nearly 400 students in a software engineering and Android development course
- Fulfill the role of product manager for multiple teams during a 4-month long Android project
- Implement Agile practices such as weekly standup meetings to ensure steady progress and adherence to project requirements

Save-On-Foods, Freson Bros - *Dairy Manager*

Aug 2020 - Jul 2021

- Write and receive orders to keep dairy section stocked and cycle out expiring product
- Used Excel and Python to improve order picking, by analyzing sales data from a SQL database
- Efficiently direct and assist grocery clerks with their tasks

Projects

Catch Me If You Scan - *Java, Firebase, Android Studio*

<https://github.com/CMPUT301W23T07/catch-me-if-you-scan>

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

- Worked alongside a team using Agile and OO principles for efficient development
- Met all provided user requirements and extensively tested them with Mockito and Espresso

Tartan Smart Home System - *Java, SQL, Python*

Deployed, extended features, and extensively tested an IoT smart home service.

- Used Mockito, SonarQube, PyTest, JMeter, etc. to assess code quality and performance
- Developed reporting system to visually track usage of smart home features

Discord bot - *Node.js, Javascript*

Provided music, web data such as weather, and interactive text based games to over 400 Discord servers.