# **CARTER MOORE**

cartermoore.ca

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### TECHNICAL SKILLS -

**Languages:** Go, TypeScript, JavaScript, Python, Java, C++, C#, C, Kotlin, CSS, HTML, SQL, ECMAScript **Frameworks/Tools:** React, Angular, Node, Express, Redux, Jest, GraphQL, REST, MongoDB, Postgres, Spring Boot, OpenAI API, Prompt Engineering, Jetpack Compose, Android Studio, Unity, Git, Agile

### EDUCATION -

Bachelor of Computer Science, University of Waterloo, cGPA: 96.00%

Sep 2022 - Apr 2025

Bachelor of Computer Science, University of New Brunswick, cGPA: 4.3 / 4.3

Sep 2020 - Aug 2022

• Recognized as top 1/256 of CS undergraduate class by receiving the Computer Science Prize.

### WORK EXPERIENCE —

Khan Academy

Jan 2024 - Apr 2024

Software Engineer Intern

Mountain View, CA

Python | Go | LangChain | GPT-4 | OpenAl API | GraphQL

• Porting Go-based AI workflow to Python-powered pipeline with LangChain.

Khan Academy

May 2023 - Jul 2023

Mountain View, CA

Software Engineer Intern

React | Go | GPT-4 | OpenAl API | GraphQL | Flow | Jest | CSS

- Developed and deployed one of the most-requested user features for **Khanmigo AI tutor chatbot**: stopping generation of GPT-4 AI responses, **projected 975k feature uses/yr**.
- Collaborated in driving "Khanmigo Insights", enabling Khanmigo to learn about the user and tailor responses accordingly. Prompt engineered existing AI requests for insight extraction and merging, improving response consistency by ~70%.
- Led architectural planning for Khanmigo anti-cheat, preventing 99% of cheating with Khanmigo.
- Worked in a full-stack capacity, utilizing React with Flow for front-end interfaces, GraphQL for data querying, and Go paired with OpenAI's API for back-end logic and AI interaction.

Populus Global Solutions Inc.

May 2022 - Aug 2022

Fredericton, NB

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Full-Stack Developer Intern

Angular | TypeScript | Java | Spring Boot | REST | Jest | JUnit | Postgres | SQL | CSS

- Implemented in-app release notes, saving 100 hrs/yr of customer update meetings.
- Converted client-side bulk data export to server-side, cutting export time by 67%.
- Authored app-wide unsaved changes guard, and real-time auditing for user data input, eliminating user error and improving user efficiency by ~30%.

Mach85 Inc.

Sep 2021 - Dec 2021

Fredericton, NB

Junior Software Developer Intern

C++ | Java | Qt | JavaFX | CMake | Conan

- Development for a native desktop application software product in C++ and Java.
- Reimplemented existing still-image analysis software to work with real-time video, reducing analysis time by ~90%.
- Converted ~40% of Java codebase to optimized C++, resulting in a ~250% performance improvement.

## PERSONAL PROJECTS ——

#### Orbit

Kotlin | Amazon Web Services (AWS) | DynamoDB | Amazon S3 | Amazon EC2 | Jetpack Compose

• Android app for finding, sharing, and saving events taking place in the Waterloo region.

### SharePlace

Node.js | Express.js | MongoDB | React | Mongoose | JavaScript | Google Maps Geocoding API

• Social media web app for sharing images of places and viewing them in-app on Google Maps.

### Imglabs.io

React | JavaScript | Next.js | Tailwind UI | Node.js | Supabase

- Image proxy service using edge computing. Primarily worked on the user-facing website and auth. Gun Time | Grade: 100%
- FPS platformer/puzzler game, over 100 hrs of development time using Unity with C#.