CARTER MOORE

<u>cartermoore.ca</u>

TECHNICAL SKILLS

Languages: Python, Java, C++, Go, TypeScript, JavaScript, C#, C, Kotlin, CSS, HTML, SQL, ECMAScript Frameworks/Tools: React, Angular, Node, Express, Redux, Jest, GraphQL, REST, MongoDB, DynamoDB, S3, Spring Boot, OpenAI API, Prompt Engineering, Jetpack Compose, Unity, Git, Agile, LangChain

EDUCATION ——

Bachelor of Computer Science, University of Waterloo, cGPA: 96.09%

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 -

Amazon

Software Development Engineer Intern

Java | AWS CDK | Lambda | S3 | SNS | SQS | Kinesis | Cloudwatch

- Developed a pipeline aggregating data from ~18k API requests/min, supporting a new payment method outage detection system projected to decrease mean time to detection by 24%.
- Analyzed cost of several implementation approaches, opting for a path with 83% less cost.

Khan Academy

Software Engineer Intern

React | Go | TypeScript | Python | LangChain | GPT-4 | OpenAI API | GraphQL

- Implemented AI-generated message suggestions for chatbot users, yielding ~7.8 million yearly recommendations; collaborated with data scientists to create A/B tests.
- Developed "resume conversation" functionality, **saving** ~**16200 lost conversations annually**.
- Ported Go-based AI workflow to Python-powered pipeline with LangChain.

Khan Academy

Software Engineer Intern

- React | Go | GPT-4 | OpenAI 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, yielding 975k feature uses/yr.
- Collaborated on "Khanmigo Insights" to enable personalized user interactions by letting Khanmigo learn about the user; improved response consistency by ~70% through prompt engineering.
- Led architectural planning for Khanmigo anti-cheat, preventing 99% of cheating with Khanmigo.

Populus Global Solutions Inc.

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%.

Mach85 Inc.

Junior Software Developer Intern

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

- Redesigned still-image analysis software to work with real-time video, **cutting analysis time by** ~90%.
- Converted ~40% of Java codebase to optimized C++, resulting in a ~250% performance improvement.

PERSONAL PROJECTS -

<u>Orbit</u>

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.

<u>Imglabs.io</u>

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#.

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> May 2024 - Aug 2024 Vancouver, BC

Jan 2024 - Apr 2024

May 2023 - Jul 2023

May 2022 - Aug 2022

Sep 2021 - Dec 2021

Fredericton, NB

Fredericton, NB

Mountain View, CA

Mountain View, CA

Sep 2022 - Apr 2025