

Kai Kit Jeffrey Chan

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Technical Skills

Languages: Python, Java, TypeScript, JavaScript, Elixir, C, Ruby, Golang, SQL, CSS, HTML

Libraries/Frameworks: React, NextJS, Tailwind CSS, GraphQL, Flask, Vue, Ruby on Rails, Phoenix, Absinthe, Express

Tools: Git, PostgreSQL, Prisma, Storybook, Selenium, Docker, AWS S3, MongoDB, Figma, Jest

Experience

Frontend Developer Intern | U.GG, Texas, TX | *TypeScript, Tailwind, React, GraphQL* May 2022 – Aug 2022

- Implemented redesigns of **League of Legends** player profiles using **React and Tailwind CSS** increasing website traffic by **5 million monthly users**; individual project projected to generate **50k in monthly revenue**.
- Enhanced champion build pages with **Apollo server-side rendering**, **WebP asset optimization**, and **component memoization**, reducing **page load times** by **12%**.
- Resolved critical UI/UX issues to improve platform performance and user satisfaction.

Backend Developer Intern | U.GG, Austin, TX | *Elixir, Python, Phoenix, Absinthe* May 2023 – Aug 2023

- Using **Elixir and GraphQL**, improved query performance with **batched resolvers**, **query complexity analysis**, and **performance monitoring middleware**, reducing resolution times by **20%**.
- Leveraged **AWS S3** to store and serve preprocessed champion stats, reducing **database query times** and enhancing **data retrieval speed** for frontend rendering.
- Developed **integration and unit tests** with **Jest** for a Valorant desktop overlay app enhancing **code reliability** and minimizing bugs, reducing downtime significantly.
- Defined **functional and non-functional requirements** and prototyped **key features** for a new TFT overlay app.

Senior Data Quality Specialist | Cohere, Toronto, ON Sept 2022 – May 2024

- Improved Cohere's **software development** focused **LLM** through **statistical analysis** and **trend identification**.
- Crafted **sample technical responses** and developed high-quality **data points** for training data.
- Identified **biases** in model-generated responses, improving overall **correctness**, **clarity**, and **relevance**.
- Reviewed and synthesized **feedback from annotators**, compiling **comprehensive reports** to **developers** for fine-tuning and optimizing various LLMs.

Technical VP (Volunteer)  | DeltaHacks, Hamilton, ON | *TypeScript, Next.js, CSS* Sept 2021 – May 2024

- Facilitated weekly planning meetings and delegated work to **12 software developers**.
- Entirely rebuilt **React** application portal and landing page for better mobile-responsivity using **TypeScript**, **Next.js**, and **Tailwind CSS**.
- Led creation of applicant status, QR profile scanning and QR linking frontend used by over **1000 participants**.
- Collaborated with co-directors, events, design, and sponsorship team to ensure accuracy within applications.

Passion Projects

Multi-Agent AI Simulator  | *TypeScript, NextJS* Nov 2024 – Present

- Built a **multi-agent AI simulator** using **TypeScript**, **Next.js**, **Tailwind CSS**, enabling users to design virtual agents with customizable behaviors.
- Leveraged a network of agents to deliver **more adaptive** and **comprehensive problem-solving capabilities** than single-instance LLMs, effectively addressing complex problems
- Utilized **OOP paradigms** to design modular and maintainable code, improving **scalability and readability**.

MacEnroll  | *React, Flask-Restful, MySQL, Selenium* May 2022 – Sept 2023

- Developed a scalable course review and automated course enrollment web application for students at McMaster where over **100 users** successfully enrolled in their courses during beta testing.
- Implemented using **React**, **MySQL**, **SQLAlchemy**, **Flask-Restful**, **Sel**, and containerized with Docker; integrated with Twilio and EmailJs, notifying students immediately when enrolled successfully.

Education

McMaster University | Bachelor of Science in Computer Science, Hamilton, ON Sept 2020 – Apr 2024

- Graduated with Summa Cum Laude distinction; GPA: 4.0