

Rei Kong

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EDUCATION

McGill University

August 2022 – May 2026

Bachelor of Arts in Computer Science & Sociology, Supplementary Minor in Computer Science

- **Coursework:** Logic & Computational Theory; Software Design; Object-Oriented Programming; Algorithms & Data Structures; Principles of Web Development; Data Science; Statistical Computing; Natural Language to Data Science
- **Activities & Societies:** Hack4Impact; CodeJam Hackathon Committee; Peer Tutoring; McGill Design Consultancy
- **Awards:** \$3000 Entrance Scholarship; 4th Place at Create4Good Case Competition

University of Hong Kong

January 2025 – May 2025

Study Abroad, Bachelor of Engineering in Computer Science

- **Coursework:** Database Systems; Probability & Statistics; Algorithm Design; Functional Programming

EXPERIENCE

McGill University

August 2025 – December 2025

Incoming Undergraduate Teaching Assistant

- Host office hours, answer technical questions, and create comprehension quizzes and other educational content on **Python** and data structures for **900+ students**

Amazon

June 2025 – August 2025

Software Engineer Intern

- Engineered a scalable command-line interface in **Java** to handle mass AWS service migrations, reducing pipeline migration time from **12 weeks to 4 weeks** for **10,000+** engineers
- Authored and presented a system design document analyzing performance trade-offs and scalability to **3** stakeholder groups
- Diagnosed a production issue with backend access and authentication paths and led improvements to authentication logic, impacting **2,000+** teams
- Wrote internal **documentation** adopted as a team standard, detailing code purpose, scalability, and future design gaps
- **Proactively** created a **system design diagram** of the team's full-stack web application to support onboarding and cross-team collaboration

McGill University

October 2024 – December 2024

Research Intern

- Authored a **10-page** literature review analyzing bias in AI-driven resume screening tools, synthesizing existing research to identify underlying causes of bias and propose technical and non-technical mitigation strategies

Business-Software.com

October 2023 – October 2024

Software Developer Intern

- Created a **JavaScript**-based Chrome extension, increasing filled-in forms by **100%**
- Leveraged **Chrome Extension APIs** to automate repetitive tasks, reducing time to input form data by **80%**

PROJECTS

ConUAlerts | [GitHub](#)

- **Collaboratively** developed a scalable web application notifying **150+** students when spots open in their desired classes via SMS, using **React**, **TypeScript**, **Go**, **PostgreSQL**, **MongoDB**, **Docker**, **Twilio**, and **Microsoft Azure**
- **Collaborated** on system design discussions for concurrent scraping and fault-tolerant messaging using **RabbitMQ**, enabling **40x faster** performance across microservices

myBookings | [GitHub](#)

- Engineered a booking tool with user authentication for McGill students and staff in a **team** using **React**, **PostgreSQL**, **Express**, **Node**, **Microsoft Azure**, and **Figma**

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Hack4Impact McGill

September 2022 – Present

Executive Director & Software Developer

- **Spearhead** a team of **50+** members developing software solutions for socially responsible groups, such as Greenpeace, and **oversaw 10+** consultations with non-profit organizations
- Oversee **3** product and engineering teams iterating on prototype features, ensuring alignment with user requirements
- Developed UI and backend features for a donations tracker web application using **React**, **TypeScript**, and **Express**, enabling users and non-profits to streamline donation requests and collection

TECHNICAL SKILLS

Programming Languages: Python, Java, TypeScript/JavaScript, C, Haskell, SQL, Bash

Frameworks & Tools: React, Next, Node, JUnit, Git, HTML/CSS, Visual Studio Code, Unix, Stata, Adobe Creative Cloud, Figma, Human-Computer Interaction