

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; Object-Oriented Programming; Algorithms & Data Structures; Software Design; Principles of Web Development; Data Science; Statistical Computing; Natural Language to Data Science; Database Systems; Probability & Statistics; Algorithm Design; Functional Programming
- **Activities & Societies:** Hack4Impact; CodeJam Hackathon Committee; Social Studies of Computing Research Group; Peer Tutoring; McGill Design Consultancy; World Vision
- **Awards:** \$3000 Entrance Scholarship; 4th Place at Create4Good Case Competition

EXPERIENCE

McGill University

August 2025 – Present

Undergraduate Teaching Assistant

- Host office hours, answer technical questions, and create comprehension quizzes and other educational content on **Python** and data structures for **750+** students

Amazon

June 2025 – August 2025

Software Engineer Intern

- Designed and implemented a modular **Java** CLI using **Picocli** to streamline mass service migrations, cutting pipeline migration time from **12** to **10** weeks for **10,000+** engineers
- Led **security review** and designed backend authentication flow with **AWS Cognito** and an internal **middleware-based authentication system** for **2000+** teams
- Diagnosed and remediated a **production security issue** where external services bypassed dedicated authentication routes, ensuring all protected endpoints enforced required access controls and safeguarding data for **2,000+** teams
- Wrote and presented a **system design document** to **2 stakeholder groups** integrated as **team standard**

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** Chrome extension search tool, increasing filled-in forms by **100%** and reduce search times by **40%**
- Leveraged **Chrome Extension APIs** to automate repetitive tasks, reducing time to input form data by **80%**
- Added pagination with **Redis** caching on the backend to reduce page loading speeds by **60%** and server request volume by **50%**

PROJECTS

ConUAlerts | [GitHub](#)

- Developed a scalable web application notifying **150+** students when spots open in their desired classes via SMS in a **team**, using **React**, **TypeScript**, **Go**, **PostgreSQL**, **MongoDB**, **Docker**, **Twilio**, and **Microsoft Azure**
- **Collaboratively** implemented 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 **TypeScript**, **React**, **Node**, **Express**, **PostgreSQL**, **Microsoft Azure**, and **Figma**

LEADERSHIP EXPERIENCE

Hack4Impact McGill

September 2022 – Present

Executive Director

- **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

Cloud & DevOps: AWS (Cognito, CloudWatch)