

# Alex Kao

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## EDUCATION

### Concordia University

*Bachelor of Computer Science with Co-op*

Montreal, QC

Aug. 2023 – Present

### Collège de Bois-de-Boulogne

*Associate's in Computer Science (DCS in Quebec)*

Montreal, QC

Aug. 2020 – May 2023

## EXPERIENCE

### Full-Stack Intern

*Écosystèmes Alimentaires Urbains*

Jan. 2023 – May 2023

Montreal, QC

- Built MAIA, a user-friendly web application for aquaponics research, optimizing data entry processes, and enhancing overall efficiency
- Helped the IT team in designing and implementing a robust PostgreSQL database, streamlining data management and migrating from Excel spreadsheets
- Developed a responsive interface, ensuring a seamless user experience in data input and retrieval, working closely with the lead scientist and data entry team

### French Tutor

*Collège de Bois-de-Boulogne*

Jan. 2021 – Dec. 2021

Montreal, QC

- Provided personalized and engaging tutoring sessions for students with high linguistic difficulties in French
- Applied creative and effective learning strategies to enhance students' comprehension and retention of the language

## PROJECTS

### MAIA | Django, Vue.js, PostgreSQL, Git

Jan. 2023 – May 2023

- Developed a full-stack aquaponics data analysis application deploying on Vercel (front-end) and Heroku (back-end)
- Designed a responsive Vue and Vuetify front end for intuitive data exploration
- Implemented secure back-end functionality using Django and Django REST Framework
- Utilized AG Grid for efficient handling of large-scale data in complex tables
- Implemented CI/CD on Vercel and Heroku with unit testing for major functionalities using Unittest

### Fitness application | Express, Bootstrap, MongoDB, Git

Sept. 2022 – Dec. 2022

- Built a CRUD application that motivates users to develop good health habits by gamifying their life
- Led a team of 3 students using agile methodologies (Scrum) to deliver the application in 12 weeks
- Integrated the application with Spoonacular API, an API that provides data and tools for food and nutrition
- Implemented automated tests with Jest and Cypress to ensure the app's functionality, reliability, and security

### Medical appointment booking application | Express, HTML/CSS, JavaScript, Git

Jan. 2022 – May 2022

- Built a CRUD application that allows users to book appointments with doctors and clinics online
- Led a team of 4 students using agile methodologies (Kanban) to deliver the application in 12 weeks
- Integrated a secure payment system with Stripe, a platform that enables online payments and billing
- Implemented full authentication with encrypted passwords and session management using Passport.js and Bcrypt

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, C#, C, SQL, HTML/CSS

**Frameworks:** Django, Vue.js, Node.js, Express

**Databases:** PostgreSQL, SQLite, MongoDB

**Developer Tools:** Neovim, IntelliJ, VS Code, Git, Docker, Vite

**Libraries:** Django REST Framework, AG Grid, Chart.js, GSAP

## ABOUT ME

**Other interests:** Tech events (hackathons, conferences, CTFs), books (psychology, philosophy), biking, photography

**Qualities:** Curious, challenge-seeking, resilient, feedback-oriented, open-minded, meticulous