Kevin Chau

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Education

Western University, Specialization in Computer Science, Minor in Software Engineering — Sept 2021 – April 2025

- **Coursework:** Data Structures and Algorithms, Computer Networks, Databases, Object-Oriented Design and Analysis, Organization of Programming Languages

Experience

Work Study Student, Western University – London, CA — Sept 2024 – Present

- Researched and developed an **MQTT-based** IoT system with ESP modules for data transmission from harsh environments.
- Integrated **HiveMQ** to establish connections with MQTT devices, enabling efficient data transmission and reception from the cloud to support IoT system integration.

Software Engineer Intern, HitMeUp.ai – Remote — May 2024 – Sept 2024

- Led the development of a chat widget feature, enabling experts to embed our platform into their websites. This solution increased lead generation activity by **22%** for experts.
- Implemented a timestamping feature for the inbox, enabling accurate tracking of message history and improving user experience
- Developed core application features, including user account management, using **PostgreSQL** and **Django** for efficient backend and database management

Python Tutor, ScratchCoding4Kids – Scarborough, CA — March 2022 – Sept 2022

- Developed a Python fundamentals curriculum for students in grades 5-12.
- Managed and taught **10+** students, providing guidance and support to help them understand Python programming concepts.
- Collected valuable feedback from parents of our students to enhance and refine our course for future cohorts.

Projects

Uplifted Echoes — https://news-app-seven-rose.vercel.app/

- Developed a real-time news website using **NextJS**, **TypeScript**, and **Tailwind CSS**.
- Implemented search functionality, allowing users to find news articles by topic or keyword.

Air Pollution Detector

- Developed an air pollution detection tool that helped to inform and notify users on the air quality in any given location.
- Utilized a Raspberry Pi for the hardware and software used **C++** and **React** for the front end.
- Implemented a database using **SQLite** to seamlessly retrieve and save air readings from the Raspberry Pi.

Extracurriculars

Western AI Club — October 2022 - May 2024

- Implemented a feature for users to easily sign up and add club events to their google calendar using the Google Calendar API.
- Allowed users to enable push notifications to notify them on the latest events boosting engagement by implementing a Cron Job.
- Refactored the codebase from Bootstrap to React.js, leveraging server-side rendering to improve page load times by **20%** and code duplication by **30%**.

Technologies

Languages: Java, Javascript, TypeScript, Python, C/C++, SQL, HTML/CSS
Frameworks: React, Django
Developer Tools: Git, Visual Studio Code, Figma, Node.js, Jira, Slack