

# KAYNE LEE

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## EDUCATION

### Queen's University

Sept 2022 – May 2026

Bachelor of Applied Sciences & Engineering (Honors) – **Computer Engineering**

- Queen's University Excellence Scholarship; Relevant Courses: Intro to Programming (A), Data Structures and Algorithms (A-), Object Oriented Programming, Introduction to Data Science

## WORK EXPERIENCE

### Queen's University | Teaching Assistant (APSC 142)

Jan 2024 – Present

- Delivered comprehensive support to students, specializing in computer programming concepts. Addressed individual queries with precision, fostering a strong foundation of key principles and delivering constructive feedback on assignments.
- Demonstrated leadership, communication, and problem-solving skills through active engagement with students and collaborative teamwork with fellow instructors. Leveraged cutting-edge tools such as Microsoft Teams, CLion, and Gradescope, streamlining learning processes and facilitating a dynamic exchange of information.

### Debacle inc. | Software Engineering Intern.

Jan 2024 – Present

- Engineered Shopify plug-in app with JSON, Python, and advanced machine learning. Utilized Shopify template with AUTH for secure authentication and GraphQL for streamlined queries. Addressed complexities, including Admin Block challenges.
- Collaborated with senior engineer, demonstrating effective problem-solving, communication, and teamwork for seamless plug-in integration. Exhibited adaptability through agile methodologies, ensuring project alignment with evolving requirements. Enhanced skills, committed to delivering innovative solutions in a collaborative, team-oriented environment.

## EXTRACURRICULAR ACTIVITIES

### QMIND | Web Development Coordinator

May 2023 - Current

- Enhanced QMIND.ca website with React.js, Next.js, Tailwind CSS, SCSS, and Framer Motion, addressing technical challenges for optimal performance and collaborating with the team to ensure a seamless, responsive user experience.
- Applied product management principles, utilized Supabase for a secure login portal, and showcasing problem-solving, communication, and teamwork skills to optimize the website the showcase the talent and achievements of QMIND.

### QUANTT | ML Algorithmic Trading Developer

Sep 2023 - Current

- Developed machine learning trading algorithms in Python, showcasing analytical skills for dynamic stock market strategies. Collaboratively enhanced algorithmic improvements through effective communication and teamwork.
- Conducted comprehensive real-world testing, refining algorithms to adeptly respond to market fluctuations. Utilized QuantConnect for quantitative analysis, consistently enhancing performance through a process of iterative improvements.

### QWeb | Development Director

Sep 2023 - Current

- Led QWeb website development sprint, demonstrating proficiency in Next.js, React.js, and Git version control. Actively contributed, displaying strong leadership skills to align with project goals and foster effective collaborative teamwork.
- Utilized Next.js, React.js, and Git for version control to skillfully lead teams through a cohesive development process. Effectively communicated project objectives, milestones, and technical details for shared understanding and collaboration.

## PROJECTS

### SmartPlate

Next.js, OpenAI

- Developed a user-friendly Next.js mobile application integrated with OpenAI GPT-3.5, designed to take user input and provide customized meal plans along with a shopping list, simplifying grocery shopping for students.

### Spreadsheet

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- Developed a spreadsheet utilizing diverse data structures and algorithms, including linked lists, queues, and hashmaps. This spreadsheet mirrors the functionality of Excel, allowing formula calculations and memory copying from other cells.

### Bitcoin Price Predictor

Python, Jupyter Notebook

- Developed a machine learning algorithm to predict the future price of Bitcoin using historical price and sentimental data. Integrated an advanced XGBoost model to significantly improve accuracy for the next day predictions of the price.

## TECHNICAL SKILLS

- Languages:** JavaScript, TypeScript, HTML, CSS, Python, C/C++, SQL, GraphQL, Java
- Frameworks/Libraries:** React, Node.js, Next, Framer Motion, Tailwind, Git