KAYNE LEE

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EDUCATION

Queen's University Sept 2022 – May 2026

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

- GPA: 3.3/4.3; Queen's University Excellence Scholarship; Relevant Courses: Intro to Programming (A), Data Structures and Algorithms (A-), Object Oriented Programming

WORK EXPERIENCE

Queen's University | Teaching Assistant (APSC 142) Jan 2023 – Present

- **Facilitated** student comprehension of coding concepts through personalized support. **Collaborated** effectively with instructors throughout the development process of engaging learning materials. **Committed** to refining the educational content but also resulted in a **significant contribution** to the overall enhancement of the educational experience for students.

Debacle inc. | Software Engineering Intern. Jan 2023 – Present

- **Engineered** a cutting-edge Shopify plug-in, leveraging a sophisticated machine learning algorithm meticulously trained on diverse Shopify stores. This plugin takes various stores as inputs and delivering **comprehensive** keyword insights, thereby providing Shopify users with invaluable **data-driven** recommendations for enhanced store **optimization and performance**.

Denso | Summer Student Associate May 2023 – Sept 2023

- Manufactured and developed **HVAC** and **ECM** Units for different companies such as **Ford, Toyota, Lexus, and Honda.** Conducted N^2 and **NVH** tests to ensure quality of each individual unit.

EXTRACURRICULAR ACTIVITIES

QMIND | Web Development Coordinator May 2023 - Current
React, Next, Tailwind CSS, Framer Motion

- **Implemented** advanced features and optimized the QMIND.ca website using Next.js, **elevating** it into a **sophisticated** online platform that effectively highlights the diverse talents within the QMIND community.

QUANTT | ML Algorithmic Trading Developer Sep 2023 - Current
Python, QUANTT Connect

- **Formulated** machine learning-driven trading algorithms, conscientiously **devise** strategies and **evaluate** their efficacy by subjecting them to real-world testing within the dynamic environment of the stock market.

QWeb | Development Director Sep 2023 - Current
React, Tailwind CSS, Framer Motion

- **Led** the development sprint for the QWeb website, actively **contributes** to each stage of the development sprint, ensuring a **streamlined** and **collaborative** approach that aligns with project goals and milestones.

PROJECTS

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 a **XGBoost model** to improve accuracy of the next day predictions of the price.

Wordle React.js, JavaScript, Node.js, JSON

- **Engineered** a copy of the Wordle game. **Developed** the backend using **JSON**. Created this application using **React.js** for frontend. This project follows all the original rules of the original game and allows the user to try multiple times.

Pacman C++

- **Engineered** the game Pacman using **C++. Applied** different libraries to the game so the game could be played in the terminal. Used a **recursive function** to create movements for the ghost and scanned a text file to create the map.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, HTML, CSS, Python, C/C++, SQL, Java
- **Frameworks/Libraries:** React, Node.js, Next, Framer Motion, Tailwind
- **Technologies/Software:** Figma, Git, GitHub, Netlify, Arduino**,** Jupyter Notebook