

Jacky Chuk Han Lee

Software Engineer Student

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Skills:

- **Programming Languages:** C++, Ruby on Rails, JavaScript, HTML, CSS, NodeJS
- **Frameworks & Tools:** Docker, GitHub, Bootstrap, MySQL, MongoDB, Figma
- **Specialized Skills:** Prompt Engineering, UI/UX Design, Wireframing, Prototyping, Usability Testing
- **Languages:** Fluent in English, conversational in Cantonese
- **Soft Skills:** Team Leadership, Project Management, Problem-Solving, Effective Communication

Projects:

Capstone Project Manager:

Vehicle and People Identification from Drone Footage Using Machine Learning

09/2023-05/2024

- Project Manager for a team of **4** developers. Delivered **100%** of oral scheduling reports to the faculty advisor, ensuring developers met deadlines, and general overview of the project progress, providing expertise where needed.
- Developed **95%** of the website using **Figma**, and **NodeJS**, with **HTML**, **CSS**, **JavaScript**, and **Bootstrap** elements to call the ChatGPT **API** and **MongoDB API**, connecting the backend services to the front end.
- Managed **100%** of **infrastructure design, procurement, installation, deployment, and maintenance** of all **CMS**-related packages
- Over **75%** accuracy was achieved by integrating machine learning and AI to accurately identify vehicles and pedestrians from drone footage, inputting data retrieved into a MongoDB database.
- Improved usability by **80%** by implementing the ChatGPT4 API and utilized prompt engineering to translate users' natural language to computer code language to search databases.
- Held surveys for shareholders to determine which prototypes match their preferences, and to determine usability metrics

Experience:

Engineering Outreach Program Instructor

Ontario Tech University Oshawa, Ontario

12/2024-present

- Spearheaded the delivery of **50+** dynamic STEM and engineering workshops, inspiring over **1,000** students across various age groups to explore technology and innovation.
- Designed and executed comprehensive lesson plans that demystified complex engineering concepts, achieving a **90%** student satisfaction rate based on post-workshop surveys.
- Optimized instructional strategies to accommodate diverse learning needs, achieving a **25%** improvement in engagement and retention as measured by pre-and post-session assessments.

Coding Instructor

08/2024-12/2024

Code Ninjas Markham 5328 Hwy 7 Suite 5, Markham, ON L3P 1B9

- **Led** and mentored 20 students aged 8 to 15, creating a positive and engaging learning environment that promoted teamwork and individual growth.
- **Authored** detailed daily reports for each student, capturing classroom behavior, academic progress, mastery of coding concepts, and providing actionable insights for personalized student support.
- **Enhanced** classroom engagement through innovative activities and projects that encouraged creativity, problem-solving, and a passion for technology among students.

Engineering Outreach Senior Instructor (AI)

Ontario Tech University Oshawa, Ontario

02/2024-05/2024

- Generated and revised learning materials by over **80%** to fit the topic of Generative AI.
- Updated and revised **30%** of existing learning materials from "Thriving in the Age of AI" from Ontario Tech University to smoothly incorporate the Generative AI learning materials.
- Train team members on modules and new features and troubleshoot as needed.

Education:

Bachelor's in engineering: Software engineering (Honors), *Ontario Tech University*

Additional Achievements:

Microsoft Certified: Azure AI Fundamentals

August 11, 2023