

Kurtis Lin

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EDUCATION

University of Waterloo

Bachelor of Applied Science (BASc) in Management Engineering

Waterloo, ON

Courses: Intro to Computer Programming, Linear Algebra

PROJECTS

Trading Algorithm | *Python, YFinance, Pandas, Selenium, Matplotlib*

- Designed and deployed web scraping methods to obtain news data for visualization and analysis
- Developed an algorithmic model that leverages graph and systems-based patterns derived from economic theories to accurately forecast market trends, achieving a prediction accuracy of 85%
- Carried out back testing to improve model precision and optimize market forecasting outcomes

Scam-Mah | *Python, Scikit-learn, HTML, CSS, JavaScript, Fast API, Pandas*

- Collaborated with a team of four to develop a scam detection model at NewHacks, securing third place among 100+ participants
- Integrated an advanced scam detection algorithm that leverages metrics such as hang-up rate, call time, and calls per minute to identify fraudulent activity
- Built a visually appealing interface using HTML, CSS, Javascript, and used FastAPI to showcase real-time results from detection model

Handwritten Digit Recognition | *Python, Keras, Tensorflow, Matplotlib*

- Constructed a Python digit recognition tool designed to identify handwritten digits effectively
- Reviewed documentation, followed tutorials, and employed trial-and-error methods
- Adjusted and fine-tuned models to address bias and increase training efficiency, achieving 93% accuracy

Local Website Design | *HTML, CSS, JavaScript, TypeScript*

- Designed and developed over 10+ custom websites for local restaurants
- Built websites without external libraries to minimize loading times, improving search results
- Explored JavaScript-based solutions to create intuitive, user-friendly interfaces

WORK EXPERIENCE

Private Swim Instructor

Jul 2024 – Aug 2024

Freelancer

Vancouver, BC

- Privately taught children to swim, customizing instructional methods for each student with no previous swimming background
- Advised parents on ways to support their children's improvement at home
- Maintained a safe environment while utilizing different instructional devices to teach children how to swim, ensuring active engagement

Line Cook

Apr 2022 – Feb 2023

The Keg SteakHouse + Bar

Vancouver, BC

- Prepared and cooked meals for 100+ of guests each night, ensuring quality and efficiency in a kitchen
- Collaborated with team members to coordinate kitchen tasks, ensuring smooth service and consistency
- Provided excellent dining experience by prioritizing aesthetics, and quality of each dish

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML, CSS, Typescript

Developer Tools: FastAPI, VSCode, MySQL, Selenium, Jupyter Notebook, Pandas