Luke Wang

514-893-3972 | luke.wang@mail.mcgill.ca | linkedin.com/in/luke-wang63 | github.com/LukeWang2

Education

McGill University Montreal, QC
BSc. - Computer Science and Statistics *Aug. 2022 – May 2025*
Awards: Emily Ross Crawford Scholarship
GPA: 4.0/4.0

Technical Skills

Languages: Python, Java, Bash, C, HTML, CSS, JavaScript, OCaml
Tools: VSCode, PyCharm, IntelliJ, Eclipse, Git, MacOS, Windows, Ubuntu, Linux, Postman, Flask, AWS, Figma, BeautifulSoup, pandas, numpy, Plaid, JUnit, Firebase, Selenium, LaTeX

Experience

Stealth Startup Aug. 2022 – Present
Software Engineer *Halifax, NS*

- Developing and maintaining the company's FinTech iOS app backend using **Postman**, **Flask**, **AWS EC2**, **BeautifulSoup**, **Plaid**, **Python**, **Boto3**, and **Bash**
- Developed a server with **AWS EC2**, hosting a **RESTful API** developed with **Flask** which integrates directly with **AWS DynamoDB** and **Firebase** and improved API call latency by 30%
- **Saved 10 hours a week** by automating research through web scraping with **BeautifulSoup** and **Selenium** in Python and **cut costs by 20%**
- Obtained a $45 000 SAFE investment from Front Row Ventures during pre-seed funding
- Advised the web development for eclipsecard.net using **Figma**, **HTML**, **CSS**, and **JavaScript** which attracts 1000+ visitors weekly
- Accumulated 100+ daily active users on TestFlight, releasing over 5 updates

Department of Fisheries and Oceans, Government of Canada May 2023 – Aug. 2023
Research Intern *Halifax, NS*

- Developed pitch tracking software in Python for acoustic detection of marine mammals and energy detector for fish detection with **numpy** and **dynamic programming**
- Created a **machine learning** algorithm in **Python** and **Java** for general acoustic classification

JP Morgan Chase & Co. Jan. 2023 – Feb. 2023
Software Engineering Virtual Internship *Remote*

- Created a full stack application for stock market analysis using **Python**, and **React.js**
- Improved stock market analysis by fixing dozens of bugs using **Python**, and **Git**
- Created a web application to display stock price data **TypeScript** and **React.js** using the **Perspective** framework

Projects

Caterpillar Game | *Java — JUnit* Mar. 2023

- Created a caterpillar/snake game in **Java**, parsing through strings recursively to follow directions
- Used **JUnit** for unit testing to fix 20+ bugs and improved program execution time by 50%

Food Social Networking | *Python — Flask — DynamoDB* Jan. 2023

- Developed a food recommendation based web app using **natural language processing**, **co:here API**, and **AWS DynamoDB**, garnering dozens of users
- Optimized recommendation algorithm which recommends users based on food taste, increasing efficiency by 50%.

Stock Market Model | *MATLAB* Dec. 2021 – Jan. 2022

- Modelled the stock market using **MATLAB** and interest rates
- Used probability density functions to determine the predicted change in future S&P 500 price

Orca Apr. 2021 – Aug. 2021

- Designed and pitched the technological and operational/business framework for an immigrant networking startup
- Placed top 500 out of over 20 000+ competitors internationally at YTBC 2021