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Jason Wang

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EDUCATION

University of Toronto *September 2021 - June 2025*
Honour's Bachelor of Science GPA: 3.67/4.0
Specialist in Computer Science (ASIP co-op) & Major in Cognitive Science

SKILLS AND TECHNOLOGIES

Programming: Python, Javascript/Typescript (ReactJS, NodeJS), HTML, CSS, Java, C, PHP, C# (.NET Core), Golang
Databases: MySQL, PostgreSQL, MongoDB, Firestore
Tools: Git, Docker, LaTeX, AWS, VS Code

EXPERIENCE

NerveX Neurotechnologies *May 2023 - Present*
Software Engineering Intern *Toronto, ON*
- Optimised data retrieval algorithms for a .NET Core API by implementing background workers using Hangfire and reducing calls to AWS S3 leading to average performance improvements of over 600%
- Implemented new features and patched bugs for a custom Typescript and React charting library designed to display high-frequency time-series data from medical devices

University of Toronto Machine Intelligence Student Team *October 2022 - Present*
Web Developer *Toronto, ON*
- Designed and implemented the website for the inaugural edition of Hack the Mist, an applied machine learning MLH-partnered hackathon, by using React, Typescript, along with ChakraUI

Fair *May 2021 - May 2022*
Web Developer *Oxford, UK (Remote)*
- Developed a prototype paper-trading web application using Golang with live price information and trading functionality with mock accounts stored in MongoDB
- Collaborated with colleagues in a tight-knit, fast-paced startup environment using the SCRUM framework to efficiently develop an ESG financial education and trading platform

PROJECTS

Street Savvy *(Python, ReactJS, Firebase)*
- Developed a React web app to suggest Toronto restaurants using a custom recommendation engine fed with data from over 1300 locations aggregated used Google Places API and stored in a Firestore database
- Created a RESTful API in Python with Flask to handle user actions and recommendation generation
- Employed the Cohere NLP API to extract location categories and to summarize Google Maps reviews

Twitter Geo-Sentiment *(Python, ReactJS, MongoDB)*
- Built a full-stack web app allowing for queries analysing and visualising regional sentiment towards a given topic using the Twitter API
- Achieved a predictive accuracy of 90% using a Naïve Bayes model trained using NLTK and Scikit-learn
- Created a frontend with React that interacts with a Flask RESTful API that interacts with the Twitter API, performs sentiment analysis, and stores data using MongoDB

Fourier Series Animation *(ReactJS)*
- Constructed a web app in React for approximating user-inputted curves using the Fourier series
- Implemented animations efficiently based on custom algorithms for evaluating complex definite integrals
- Employed the Canny algorithm to extract edges from images to generate a function able to be approximated by the Fourier series