

# Jerry Wang

Toronto, Ontario | 778-251-6946 | Jerryja2015@gmail.com | Personal Website | LinkedIn | GitHub

## EDUCATION

### University of Toronto St. George Campus

Expected Graduation: June 2025

- Bachelor of Science in Computer Science, Statistics and Economics
- **Relevant Coursework:** Software Design, Web Development, Databases, Data Structures, Algorithms, System Programming, Machine Learning, Statistical Theory, Data Analysis, Time Series Analysis, Computational Statistics, Econometrics, Linear Algebra, Micro/Macro Economics, Financial Economics

### Machine Learning Specialization | Certificate in Machine Learning

Coursera

- Developed knowledge in **prediction, classification, and unsupervised learning** using techniques such as **regression models and artificial neural networks**.
- Applied **NumPy, Pandas, and scikit-learn** to build and optimize ML models.

## TECHNICAL SKILLS AND INTERESTS

**Languages :** Python, C, Java, Kotlin, SQL, R, JavaScript, TypeScript, CSS, HTML, Bash, Assembly

**Frameworks and Libraries :** React, Vue.js, Tailwind, Flask, Django, REST API, Bootstrap, NumPy, Pandas, Tensorflow, Scikit-learn

**DevOps and Tools :** Git, Docker, Postman, Linux, LaTeX, PostgreSQL, AWS EC2, Firebase, Heroku, Netlify

**Others :** Excel, Microsoft Office

**Interests :** Mathematics, Machine Learning, Piano, Muay Thai, Hiking, Fishing, League of Legends

## EMPLOYMENT HISTORY

### Contract Web Developer

Sept 2024 – NOW

- Designed and developed a **responsive marketing webpage** for a yacht management company, enhancing online presence and client acquisition using **React, TypeScript, Node.js, and AntDesign UI library**.
- Collaborated closely with client to translate design requirements into a functional site. Increasing **Business traffic** by **17%**
- Deployed and hosted the site on Netlify, ensuring a **CI/CD workflow for seamless updates and version control**.
- *Live Demo:* [Yacht-Advertisement Site Showcase](#)

### Retail Sales Associate | Berry's Bait & Tackle Ltd

Apr 2019 – Sept 2020

- Provided **technical product guidance** and **troubleshooting** to customers, ensuring they selected the best solutions for their needs. Developed strong **problem-solving and communication skills**.
- Shared my passion for fishing by guiding customers to the best gear and tackle for their needs.
- Built a **customer relationship management system (CRM)** using Excel to improve follow-ups.
- Leveraged **data-driven sales insights** to identify customer preferences.

## PROJECTS

### Cell-Growth-Simulation (2 Iterations) | Algorithm Design, TypeScript

Dec 2024 – Jan 2025

- Developed an interactive web simulation capable of handling up to 10 million cells, demonstrating **large-scale data optimization**.
- Implemented a **granular rendering** approach and a **reactive state architecture**, reducing redundant computations and enabling **large-scale, real-time updates**.
- Hosted on Github Pages: [V1](#) | [V2](#)

### Pet adoption site | JavaScript, Django, React

Dec 2023

- Developed a full-stack web application with **15** distinct pages using **Agile methodologies**, enabling users to post, search, filter, and apply for pet adoptions.
- Employed **Django REST Framework** for a scalable back end; integrated **React** for efficient frontend rendering.
- Deployed the back end on **Heroku** and front end on **Netlify**, gaining hands-on experience with **CI/CD pipelines**.
- Collaborated with **three other** developers using Agile methodologies, iterative sprints and regular team meetings to ensure continuous feedback and improvement.
- *Live Demo:* [Pet Adoption Site Showcase](#)

### Recipe Data Analysis | Python, SQL

Jan 2025

- Developed a web scraper using **Python** and **BeautifulSoup** to **collect, Clean and serialize** recipe data from various websites for analysis.
- Designed and executed complex **SQL queries** to **extract, analyze, and optimize data insights**, leveraging efficient indexing, joins, and subqueries for **high-performance lookups**.
- Performed **EDA using Pandas, Seaborn, and Matplotlib** to analyze ingredient trends. Identified data quality issues that impacted modeling, **preprocessing data and engineered features** for future improvements.

## LANGUAGES

**Fluent in English and Mandarin**