

Wayne Chiu

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TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript, TypeScript, HTML/CSS, R

Frameworks: React, Next.js, Node.js, Flask, FastAPI

Libraries: Pandas, NumPy, Matplotlib, Seaborn

EDUCATION

University of Toronto

Toronto, ON

Honours Bachelor of Science, Computer science, mathematics and statistics

Expected Graduation: May 2029

- Cumulative GPA: 3.8 / 4.0
- Relevant coursework: Introduction to Computer Programming, Introduction to Computer Science, Introduction to Mathematical Proofs, Differential Calculus, Integral Calculus, Linear Algebra I, Introduction to Probability and Modeling

EXPERIENCE

Outreach & Logistics Associate

October 2025 – Present

UTM Robotics Club

Mississauga, ON

- Coordinated outreach events that introduced **300+ students** to robotics, programming basics, and STEM pathways
- Led sponsorship outreach and event planning for **Wally Hacks**, securing partnerships with **10+ corporate sponsors** and strengthening relationships through clear communication, professionalism, and strategic negotiation
- Oversaw logistics for monthly robotics workshop, ensuring venue availability and smooth event execution

Trade Fair Assistant

July 2023 – August 2023

Messe Frankfurt

Hong Kong SAR

- Supported event operations for a 3 day trade fair with **2000+ attendees**, ensuring smooth visitor flow and reducing wait times through structured check-in coordination
- Delivered product explanations to **100+ visitors daily**, strengthening user-focused communication skills valuable in technical roles
- Collaborated with a team of **15 staff members**, contributing to a fast-paced environment with strong **teamwork** and **reliability**

PROJECTS

Stock Price Prediction Model | *Python, Pandas, NumPy, Matplotlib, Seaborn*

- Built a stock price prediction model using Random Forest Regressor, achieving an **R² score of 0.9998** through hyperparameter tuning and feature engineering
- Processed and cleaned **5,000+ rows** of historical stock data to build a reliable training dataset
- Engineered **10+ technical indicators** (MA, RSI, volatility metrics) to enhance model performance
- Implemented a full machine learning pipeline in Python using scikit-learn, including preprocessing, model training, cross-validation, and evaluation
- Visualized trends, predictions, and error distributions with Matplotlib and Seaborn, improving interpretability and communication of results

F1 Interactive Race Dashboard | *React, JavaScript, HTML/CSS, Python, Flask*

- Developed a full-stack interactive F1 race analytics dashboard using React, Flask, and integrated FastF1 API to visualize real-time telemetry data including lap times, and driver positions
- Launched the dashboard to a small test group and **gained 40+ active users** within the first month
- Processed large-scale Formula 1 telemetry datasets and **reduced data loading time by 30%** through optimized pre-processing and caching
- Developed interactive React components with hooks to manage application state and render dynamic race visualizations