

Kevin Wang

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EDUCATION

University of Michigan

B.S.E. in Computer Science. Minors in Mathematics and Statistics. GPA: 3.733/4.00

Ann Arbor, MI

Expected May 2024

- Coursework: Machine Learning, Operating Systems, Networks, Web Systems, Probability, Statistics
- Awards: U of M Regent's Scholarship, Dean's List, University Honors

EXPERIENCE

Software Engineer Intern, Raytheon Technologies

Summer 2023

- Created server software using **C** and **FreeIPMI** for real-time sensor monitoring and failure reporting.
- Optimized sensor data reliability by implementing **Kalman filters** and a **failure detection algorithm**.
- Provided operational insights for customers to assist with their decision-making process.

Product Manager Intern, UnitedHealth Group

Summer 2022

- Orchestrated the delivery of a new Digital Identity user interface and achieved a cost saving of **\$400,000**.
- Elevated user experience for a user base of **30,000+** individuals, leading to increased user satisfaction.
- Collaborated with engineers, managers, and stakeholders to ensure alignment across key decision makers.

Student Researcher, University of Michigan

Fall 2021 – Present

- Worked as an assistant to professor Dr. Feng in the University of Michigan mathematics department.
- Contributed to groundbreaking research in the fields of machine learning and mathematical finance.
- Created **Python** program to calculate signatures of **stock and crypto prices** according to **rough path theory**.

Programming Competitions, Kalamazoo Area Math & Science Center

Fall 2017 – Spring 2020

- Won **1st place** at EMU. Competed in the nationwide ACSL All-Star Contest. USACO Silver competitor.
- Improved skills in **C++** and **Java** and gained knowledge in data structures, graph theory, and other algorithms.
- Developed communication, problem solving, teamwork, creative thinking, and programming skills.

LEADERSHIP & PROJECTS

Machine Learning Team Lead | *Michigan Hackers* | *University of Michigan*

- Organized projects and assigned tasks to 5-member team. Taught junior members machine learning concepts.

Pairs Trading | *Python, NumPy, SciPy, statsmodels* | github.com/kvnwng11/Crypto-Pairs-Trading

- Automated a pairs trading statistical arbitrage strategy using **Python** and the **Google Cloud Platform**.
- Conducted statistical analysis using **statsmodels** to identify suitable pairs and backtested on historical data.

Soccer Prediction | *Python, Scikit-learn, NumPy, Pandas* | github.com/kvnwng11/Champions-League-2022-23

- Architected a statistical model to predict the 2022-23 Champions League final using **Python** and **Scikit-learn**.
- Maximized predictive power using **6-fold cross validation**, **ridge regression**, and **logistic regression**.

Class Projects | *C++, C, JavaScript, Python, HTML*

- Instagram clone in **React/JavaScript/Flask**, a MapReduce server and PageRank search engine in **Python**.
- Thread library, virtual memory pager, network file system, video streaming CDN, static router in **C/C++**.

SKILLS & TECHNOLOGIES

(Proficient) C++, Python, Git, Linux (Familiar) Java, SQL, HTML, Java, R, MATLAB, React, Flask, AWS