

KEVIN L. WANG

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EDUCATION

University of Michigan, Ann Arbor

September 2020 – May 2024

- B.S.E. in Computer Science.
- Minors in Honors Mathematics and Statistics.

Major GPA: 3.81

GPA: 3.73

COURSEWORK

EECS: Machine Learning (553); Operating Systems (482); Networks (489); Web Systems (485)
MATH/STATS: Honors Real Analysis (297); Probability (525); Statistics (426); Computational Statistics (406)
Current: Statistical Inference (STATS 610); Honors Analysis I (MATH 395); Reinforcement Learning (EECS 498)

EMPLOYMENT

Software Engineer, Intern

Summer 2023

Raytheon (Physical Sciences & Systems)

- Created a tool using **C** to efficiently monitor and analyze server performance, providing enhanced operational insights.
- Integrated IPMI remote execution and eliminated need for an internet connection, resulting in improved accessibility.
- Maintained documentation and technical specifications for application code to facilitate future developments.
- Leveraged knowledge in Git, RHEL8 Linux, C, Bash, Vim.

Product Manager, Intern

Summer 2022

Optum Healthcare

- Spearheaded an initiative to revamp the Digital Identity user interface, elevating user experience for a user base of over **30,000 individuals** and resulting in enhanced usability, overall user satisfaction, and application scalability.
- Orchestrated the timely delivery of the product feature, managed budget constraints, and achieved a **cost saving of \$400,000**.
- Collaborated with engineers, managers, and stakeholders to ensure alignment across key decision-makers.

Research Assistant

Fall 2021 – Spring 2022

Dept. of Mathematics, U. of Michigan. (PI: Dr. Qi Feng)

- Researched stochastic integrals and their applications to deep learning and convolutional neural networks.
- Leveraged stochastic integrals for feature extraction and as neural network layers.
- Responsible for calculating Volterra signatures on discrete data sets and assisting with model training.
- Leveraged knowledge in Python, VSCode, Jupyter Notebook, and Git.

SOFTWARE PROJECTS

Personal website: www.kevinlw.com (for additional information and projects)

- **Class projects.** Instagram clone in Flask/Javascript/React, a MapReduce server, PageRank search engine (EECS 485), thread library, virtual memory pager, TCP/IP file system in C/C++ (EECS 482), video streaming CDN in C/C++ (EECS 489).
- **Machine Learning.** Scraped soccer data and used logistic regression to predict match results. Python, Scikit-learn.
- **Volterra Signatures.** Scientific program to numerically solve Volterra signatures. Python, Scipy, Numpy.
- **Pairs Trading.** Automated statistical arbitrage strategy. Python, Pandas, Numpy, Google Cloud Platform.

EXPERIENCE & AWARDS

- **Quantitative Investment Society (UofM).** Club of 20 members. Developed projects and interests in quantitative finance.
- **Michigan Hackers (UofM).** Machine Learning team lead. Led an image classification project in a club of >100 members.
- **ACSL Finalist (2020).** Selected out of >5,500 participants to compete in the ACSL HS Programming Finals.
- **First Place, EMU (2019).** Placed 1st out of >40 teams in the EMU HS programming competition.
- **USACO Silver (2018).** Competed in the silver (3rd highest) division of the USACO monthly coding competitions.

SKILLS & TECHNOLOGIES

- (*Proficient*) C++; C; Python; Git; Bash; Unix (*Familiar*) SQL; R; Java; JavaScript; HTML; CSS; React; Flask; AWS, GCP