KEVIN L. WANG

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EDUCATION

University of Michigan, Ann Arbor — **September 2020 – May 2024**
- B.S.E. in Computer Science. — Major GPA: 3.8
- Minors in Honors Mathematics and Statistics. — GPA: 3.7

COURSEWORK

EECS:	Operating Systems (482); Networks (489); Web Systems (485); Databases (485); Machine Learning (553)
MATH/STATS:	Honors Real Analysis (297); Lin. Alg. (217); Probability (525); Statistics (426); Computational Statistics (406)
CURRENT:	Formal Verification (EECS 498); Software Engineering (EECS 481); Information Retrieval (EECS 486)

EMPLOYMENT

Software Engineer, Intern — **Summer 2023**
Raytheon
- Created a tool using **C** to efficiently monitor and report server failures, 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 improved application scalability, usability, and overall user satisfaction.
- 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, Volterra signatures, and their applications to deep learning and convolutional neural networks.
- Utilized 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).
- **Soccer Prediction.** Scraped data, implemented 6-fold CV, and used regression to predict soccer games. Python, Scikit-learn.
- **Volterra Signatures.** Scientific program to numerically solve Volterra signatures. Python, SciPy, NumPy.
- **Pairs Trading.** Automated statistical arbitrage strategy. Python, Pandas, NumPy, statsmodels, Google Cloud Platform.

AWARDS & ACTIVITIES

- **Quantitative Investment Society.** Executive Board. Developed projects and interests in quantitative finance.
- **Michigan Hackers.** Machine learning team lead. Organized a computer vision project in a club of >100 members.
- **Regent's Merit Scholarship.** Awarded to the top 2% of high school students in the state of Michigan.

SKILLS & TECHNOLOGIES

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