KEVIN L. WANG

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EDUCATION

University of Michigan, Ann Arbor   **September 2020 – May 2025**

- M.S.E. in Computer Science   GPA: 4.00/4.00
- B.S.E. in Computer Science. Minors in Honors Mathematics and Statistics.   GPA: 3.73/4.00
- **Courses:** Machine Learning Operating Systems, Web Systems, Probability Theory, Statistical Inference, Honors Analysis

EMPLOYMENT

Raytheon Technologies   **Summer 2023**
Software Engineer Intern

- 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.
- <u>Leveraged knowledge</u> in Git, RHEL8 Linux, C, Bash, Vim.

Optum, Inc.   **Summer 2022**
Product Manager Intern

- 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 and achieved a **cost saving of $400,000.**
- Collaborated with engineers, managers, and stakeholders to ensure alignment across key decision-makers.

Research Assistant – University of Michigan   **Fall 2021 – Spring 2022**
Department of Mathematics (PI: Dr. Feng)

- Researched stochastic integrals, Volterra signatures, and their applications to 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.
- <u>Leveraged knowledge</u> 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

- **Quantitative Investment Society (UofM).** Student club member. Developed projects and interests in quantitative finance.
- **Michigan Hackers (UofM).** Machine learning team lead. Organized a computer vision 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 division of the USACO monthly coding competitions.
- **District Champion (2017).** MHSAA Soccer District Champion. SMAC Conference Champion (x2). Regional Finalist.

SKILLS & TECHNOLOGIES

- **Languages:** *(Proficient)* C/C++; Python; Git; Bash; *(Familiar)* Java; SQL; R; JavaScript; HTML; CSS; Assembly
- **Tools/Frameworks:** React; Flask; NumPy; Pandas; Scikit-learn; Unix; Amazon Web Services; Google Cloud Platform