





Kevin Wang

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EDUCATION

University of Michigan

Expected Dec 2023

B.S.E. in Computer Science, Minors in Math and Stats

Major GPA: 3.8

Courses: Operating Systems, Computer Networks, Web Systems, Machine Learning, Linear Algebra

SKILLS

Programming Languages: C/C++, Python, Java, JavaScript/TypeScript, SQL, HTML/CSS, \LaTeX , R, Rust

Tools: Git/GitHub, Unix Shell, Linux, Ubuntu, x86, VS Code, Vim, Clang, Nasm, Amazon Web Services, GCP

Web Dev Tools: React, Node.js, Flask, Jinja, WordPress, Bootstrap, FastAPI, TailwindCSS

Python Libraries: Pandas, NumPy, Matplotlib, Statsmodels, Scikit-learn, PyTorch

WORK EXPERIENCE

Software Engineer, Intern | Raytheon Technologies

May 2023 – Aug 2023

- Developed a robust tool using C to remotely monitor and report server failures across 50+ sensors
- Designed detection algorithm to identify server failures and handle invalid data, resulting in 24% fewer false positives
- Improved accessibility by integrating IPMI remote execution
- Collaborated with managers and engineers to specify project requirements

Product Manager, Intern | UnitedHealth Group

June 2022 – Aug 2022

- Led initiative to overhaul product documentation using MKDocs and Github, generating \$400,000/yr in savings.
- Streamlined documentation for the data matching algorithm, increasing developer productivity by 27%
- Presented progress and project impact to major shareholders in biweekly meetings.

SOFTWARE PROJECTS

Instagram Clone | JavaScript, React, Python, Flask, HTML/CSS

Spring 2023

- Created an Instagram clone with dynamic pages (JavaScript/HTML/CSS) and a REST API (Python, Flask)
- Incorporated infinite scrolling and double-click liking using React
- Build REST API using Python/Flask to support GET, POST, and DELETE requests

Machine Learning | Python, NumPy, Pandas, Scikit-learn, PyTorch, Matplotlib

Fall 2022

- Implemented machine learning algorithms achieving >80% accuracy on various data sets (MNIST, Fashion, etc.)
- Algorithms included PCA, SVM, kernel methods, Gaussian Processes, E-M, regression, and more
- Scraped data, implemented 6-fold cross-validation, and used logistic regression to predict soccer games

Network File Server | EECS 482 (Operating Systems)

Fall 2022

- Developed a network file server in C++ allowing users to create, write, read, and delete files and directories
- Handled concurrent requests from different clients using threads, mutexes, and condition variables
- Established communication between clients and server using socket programming and TCP

LEADERSHIP & OTHER EXPERIENCE

Michigan Hackers | Team Lead

Fall 2021 – Fall 2022

- Organized computer vision projects and hosted educational sessions for student-run club of 100+ members
- Collaborated with members to create a machine learning model to colorize gray-scale images

Research Assistant | University of Michigan Dept. of Mathematics

Fall 2021 – Spring 2022

- Worked under the guidance of Qi Feng to research Volterra signatures and their applications to machine learning
- Designed and implemented efficient algorithms to compute Volterra signatures, reducing computational costs by 92%
- Created Python scripts to source, clean, and transform data thereby streamlining the research workflow

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