Henry Ma

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EDUCATION

Northwestern University   Evanston, IL
Rising Junior studying Computer Science GPA: 3.89   *Expected Graduation: June 2026*

• Scalable Software Arch • Foundations of Security • Microprocessor System Design • Game Design • Design and Analysis of Algorithms • Agile Software • Graph Theory • Computer Systems • Data Structures and Algorithms • Problem Solving with computers w/C++ • Data Science Principles • Discrete Math • Probability and Statistics • Differential Equations • Linear Algebra • Multivariable Calculus

EXPERIENCE

Software Engineering Intern   June 2024 – Present
DataVisor   *Mountain View, CA*
- Developed a Java-based API endpoint using AWS SDK to automate the creation of SFTP server users and S3 buckets for new clients. This enabled engineers to initiate server configurations via API requests instead of manual setups, enhancing deployment efficiency and operational scalability
- Enhanced Kubernetes deployment scripts, for an error bot, to automatically restart pods every 5 minutes, addressing previous session connection issues in Slack-bolt servers. This adjustment ensured stable and continuous monitoring for errors in logs

Software Engineering Intern   June 2023 – September 2023
SMART Modular Technologies   *Newark, CA*
- Developed Python code that automated scripts for Failure Analysis
- Interacted with I2C bus and registers to read and edit information, analyzing discharge, charge, and other information of backup power modules
- Leveraged Vim within the Debian OS on Raspberry Pi to write, debug, and execute code

PROJECTS

GroupVotes | *React, Vite, JavaScript, Tailwind CSS, Firebase*   March 2024 - June 2024
- Developed a web application facilitates the planning of group events for friend groups
- Designed a user-friendly interface with Tailwind CSS, ensuring a seamless and intuitive user experience across various devices and screen sizes
- Integrated Firebase for backend services, which was used to handle our voting system as well as storing friend-group and event information
- Collaborated in a team setting, applying Agile methodologies for project management, ensuring timely delivery of features

Climate Fund | *Typescript, Materials UI, Firebase*   March 2024 - June 2024
- Used Materials Ui and typescript to implement a form that takes information from the client and directly uploads it to the Climate Fund donation page
- Integrated Firebase functions to upload form information to donation page and also allow donors to edit their existing donation profiles

Correkt | *Data Co-op Lead*   September 2022 – Present
- Lead a team to use Python to data scrape fact checking sites and create optimized datasets used to train fact-checking models
- Used Google Compute Instance to set up an auto scraper, scraping 13 different news sites
- Trained BERT Machine Learning Model to differentiate statements and opinions - used to determine whether or not text was fact-check worthy
- Implemented vLLM on LLM to improve performance

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C, R
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Linux, Raspberry Pi
Libraries: Pandas, Trafilatura
Soft skills: Communication, Teamwork, Collaboration, Agile Methodology
Other: Adobe Cloud, Adobe Photoshop, Adobe Indesign