Kevin Ma

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Education

Purdue University **August 2021 – May 2025**

B.S Computer Science with concentration in Machine Intelligence *West Lafayette, Indiana*

Relevant Coursework

- Algorithm Analysis, Computer Systems and Architecture, Data Structures, Databases and Information Systems, Discrete Math, Linear Algebra, Multivariable Calculus, Statistics and Probability

Projects

Deep Learning Profanity Filter | *Python, Pytorch* **August 2023 - Current**

- Developed a deep learning neural network for profanity detection using natural language processing (NLP) methods.
- Employed word embedding and advanced neural network architectures to effectively identify and differentiate profanity within textual data.

Spaceship Arcade Game | *Python* **May 2023 – August 2023**

- Developed a Python game using the Pygame library, featuring 1980's pixel art and sound effects, providing an immersive gaming experience reminiscent of old-school arcade games.
- Implemented player controls, enemy AI, and collision detection mechanics, enhancing gameplay dynamics and user engagement.

Linux Shell | *C, C++* **January 2023 – May 2023**

- Developed a Linux shell using Lex & Yacc, C, and C++, incorporating features like pipes and subshells.
- Implemented robust command parsing and execution mechanisms, ensuring efficient and reliable command line interaction.

Portfolio Website | *HTML, CSS, JavaScript* **August 2022 – December 2022**

- Designed and developed a dynamic personal portfolio website using HTML, CSS, and JavaScript
- Implemented responsive web design techniques and optimized the website for performance, accessibility, and cross-browser compatibility, resulting in an engaging user experience and increased online visibility.

Online Discussion Forum | *Java* **May 2022 – August 2022**

- Led a team in developing an advanced Java-based online forum.
- Implemented custom Purdue-Themed GUI and networking functions, enhancing user communication.
- Designed and deployed a secure client-server architecture with robust security measures, ensuring reliability and seamless user experience.

Air Quality Sensor | *C++, Arduino* **January 2022 – May 2022**

- Developed and integrated an air quality sensor, ensuring cost-effectiveness and robust performance.
- Leveraged C++ and Arduino to implement a range of features, including failsafe reboots, real-time data collection, and data analysis algorithms, contributing to accurate and actionable air quality monitoring.

Technical Skills

- Arduino, Bash, C, C++, CSS, HTML, Java, JavaScript, Mongodb, Neo4j, Python, SQL, Tableau

Experience

Chipotle **June 2021 - August 2021**

Crew Member *Fremont, California*

- Optimized inventory management, improving stock control and service efficiency.
- Ensured a clean and safe environment, enhancing customer experiences.