Kevin Kuang

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Education

University of California: San Diego   **Expected Graduation: June 2025**
Bachelor of Science, Mathematics-Computer Science, Minor in Computer Engineering
- *Relevant Coursework*: Object Oriented Programming, Discrete Mathematics, Advanced Data Structures, Web Client Languages, Computer Organization & Systems Programming, Design and Analysis of Algorithms, Components & Design Techniques for Digital Systems, Software Engineering, Intro/Computer Architecture

Projects

Developer's Journal: https://github.com/cse110-sp24-group8/cse110-sp24-group8
- Led a team of 9 in developing a Developer's Journal, a **CRUD** application for managing tasks, code logs, and documentation
- Adopted a **local-first approach** in development, emphasizing the importance of offline capabilities and data integrity
- Prioritized mastering **HTML** and **CSS** before integrating **JavaScript** to ensure a strong foundation in web development
- Established an extensive **CI/CD pipeline** to automate linting, code checks, and deployment processes.
- Implemented unit testing using **Jest** and end-to-end (E2E) testing with **Puppeteer** to ensure code quality and functionality

NYC Ticket Database
- Devised methods to create, read, and update unpaid tickets using authentic data from the New York City summons database of 100,000 tickets with **C**
- Implemented a **hash table** and **linked lis**t to efficiently organize vehicles and tickets based on summons numbers and vehicle plates
- Utilized **GDB** and **Valgrind** for identifying and resolving bugs, as well as preventing memory leaks

Auxiliary Experience

CodePath.org – Intermediate Cybersecurity, San Diego, California   **April/2024-June/2024**
Software Member
- Utilized tools like **Wireshark**, **Snort**, **Splunk**, and **Python** to analyze logs and identify malicious events in **PCAP** files
- Employed **Catalyst** to log evidence and track identified assets, ensuring comprehensive documentation and traceability
- Worked in a group to analyze the AWS Cloud Bank Breach S3 data set, leveraging team expertise to uncover insights
- Modified Amazon's Data Access Playbook to meet specific needs, enhancing its applicability to the analyzed data set
- Presented our findings and recommended strategies to prevent future breaches, emphasizing proactive security measures

CodePath.org – Intro to Cybersecurity, San Diego, California   **April/2023-June/2023**
Software Member
- Developed expertise in identifying password vulnerabilities by utilizing **John the Ripper** for password cracking and analysis
- Securing systems by identifying and exploiting vulnerable ports for admin control using **Nmap**.
- Conducted experimentation in the creation of malware and viruses for educational purposes, with a focus on understanding their functionality and developing effective preventive measures with **Msfvenom**
- Led a team presentation aimed at educating large corporation on the importance of password security and implementing precautionary measures to safeguard against malicious attacks

CodePath.org – Android Development in Kotlin, San Diego, California   **April/2022-June/2022**
Software Member
- Learned about the importance of the **Recycler View** and **Network Requests**
- Designed user-friendly and self-explanatory screens for various programs
- Implemented a mock version of a **Twitter** with their API
- Creating backends to store user data using **Parse**
- Applied finger gestures, GPS, camera capabilities to a social media app

Skills and Tool Knowledge
- HTML, CSS, JavaScript, Python, C/C++, Java, GIT, React