

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
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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 list** 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
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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
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Skills and Tool Knowledge

- HTML, CSS, JavaScript, Python, C/C++, Java, GIT, React