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, Optimization Methods for Data Science, Introduction to Cryptography

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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
- Focused on mastering **HTML** and **CSS** to establish a solid foundation in web development, incorporating a **progressive enhancement** approach before integrating **JavaScript**
- 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

Analyzing the Link Between Super Bowl Performers and Advertiser Market Performance:

- Analyzed the relationship between Super Bowl performer popularity and stock prices of companies advertising during the event using **Python** for data wrangling
- Conducted **Exploratory Data Analysis** with **Pandas** and **NumPy**, and visualized trends with **Seaborn** and **Matplotlib**
- Applied statistical analysis using **Statsmodels** to conclude that there was not enough data to show a significant correlation between performer popularity and advertiser stock performance

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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 **RecyclerView** and **Network Requests**
- Designed user-friendly and self-explanatory screens for various programs
- Implemented a mock version of a **Twitter** with their API
- Created backends to store user data using **Parse**
- Applied finger gestures, GPS, and camera capabilities to a social media app

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Skills and Tool Knowledge

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