Kevin Kuang

kekuang5@gmail.com | (94112) (415) 528-1984| https://www.linkedin.com/in/kevin-kuang-572b8a1aa/ | https://github.com/kevku

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Education

University of California: San Diego   **Expected for 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

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Projects

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 summon numbers and vehicle plates
- Utilized GDB and Valgrind as for identifying and resolving bugs, as well as preventing memory leaks

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EXPERIENCE

CodePath – Intro to Cybersecurity, San Diego, California   **April/2023-June/2023**
Software Member
- Gained valuable insights into password vulnerabilities through process of password cracking
- Acquired expertise in securing computers by identifying and mitigating vulnerabilities through exploitation of susceptible ports for admin control
- Conducted experimentation in the creation of malware and viruses for educational purposes, with a focus on understanding their functionality and developing effective preventive measures
- 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 – 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
- Administered the development of a financial tracker app

George Washington High School Robotics, San Francisco, California   **August/2020-April/2021**
Software Member
- Researched poverty, homelessness, and educational issues within the city and finding solutions to them through technology
- Designed innovations that can benefit the city's infrastructure and social issues
- Taught 20 club members the importance of GIT, usage, and implementation of GIT
- Comprehended the basic mechanics of pneumatics, electronic board, motors, and materials in designing a functional robot.
- Programmed complex movements like grabbing a ball from a receptacle or shooting a ball to accomplish goals for mini games

Lutheran Church of the Holy Spirit, San Francisco, California   **August/2017-May/2019**
Tutor & Counselor
- Tutored math, science, and English for 24 younger students
- Planned 8 hour schedules a list of activities for each week of the month

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SKILLS & ACTIVITIES
- Proficient in Java, C/C++, Python, GIT, HTML, JavaScript, Kotlin, LaTeX
- Scenic Photographer