Kevin Kang

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EDUCATION

University of California, San Diego ***GPA: 3.87/4.00***

Bachelor of Science in Computer Engineering *Expected Jun 2024*

University of California, Santa Cruz

Bachelor of Science in Computer Engineering *Oct 2020 - Jun 2022*

***Relevant Coursework*:** Data Structures, Algorithms, Computer Architecture, Python Programming Abstractions, Assembly Language, Discrete Math, Linear Algebra, Differential Equations, Multivariate Calculus

WORK EXPERIENCE

Machyna San Diego, CA

Software Engineer Intern *Jun 2022 – Present*

- Researching ideas in machine learning and computer vision to aid the autonomous retail and cashierless technology industry
- Developed a backtesting script using Python to simulate shopping cart behavior with retroactive data
- Used Python and C++ to perform analysis and data visualization, which produced 16 key data sets
- Developed a state machine algorithm in C++ that records data from an embedded system operating on a ROS2 framework

Tech4Good Lab Santa Cruz, CA

Undergraduate Research Assistant: Front End Developer *Mar 2022 – Jun 2022*

- Led a webpage redesign and developed front-end components of a web application with the Angular/NgRx/Firebase stack using HTML, SCSS, and TypeScript

UCSC Baskin School of Engineering Santa Cruz, CA

Computer Science and Engineering Tutor *Apr 2022 – Jun 2022*

- Supervised Computer Systems & Assembly Language labs and helped debug RISC-V programs
- Emphasized the basics of concepts in data structures, digital logic, and computer architecture

PROJECTS

Wordle Clone – github **and Solver** – github

- Recreated the UI and functionality of New York Times' word-guessing game Wordle on a React framework using JavaScript and HTML/CSS
- Implemented a heuristic technique in C to search for optimal guesses from a bank of 12,000+ words

Simple Database – github

- Implemented a simple database system with create, read, update, and delete operations using C

BoxCharge: device for distraction-free driving

- Utilized C++ to implement a distraction detection algorithm that communicates data via Bluetooth
- Soldered wireless charger components to the microcontroller system

TECHNICAL SKILLS

Languages & Technologies: (Proficient) C, C++, Python, HTML/CSS, Git, Unix, Airtable

(Prior Experience) Java, JavaScript, TypeScript, ReactJS, Angular, Node.js