Davis Jack Kim

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EDUCATION

- **University of California, Riverside** — Riverside, California
  Bachelors of Science - Computer Science — *Expected 2025*

  Relevant Coursework: Data Structures and Algorithms, Embedded Systems, Full Stack Web Development, Automata and Formal Languages, Software Construction, Object-Oriented Programming, Linear Algebra, Machine Organization, Assembly Language, and Data Analysis Methods

SKILLS

- **Programming Languages:** C++, C, Python, JavaScript, Swift, SwiftUI
- **Web Technologies:** CSS, HTML, ReactJS
- **Development Tools:** Git, GitHub, Jupyter Notebook, NodeJS, PlatformIO

PROJECTS

- **Theta Tau: Organization Website** — *March 2023 - Present*
  - Led a team of 4 developers in the complete end-to-end development of a full-stack web application using **ReactJS** for the frontend, **Firebase**, and **NodeJS** for the backend, ensuring efficient implementation of both user interface and server-side functionality.
  - Served as Scrum Master, facilitating weekly meetings, resolving technical challenges, and promoting continuous improvement through agile development practices to meet internal deadlines and ensure project success.

- **Bop-it Remake: AVR Microcontroller Game** — *August 2024*
  - Engineered an interactive game system using **AVR microcontroller**, **C**, and **C++**, incorporating input from a joystick, potentiometer, and infrared remote.
  - Utilized a **modular task scheduler** to handle multiple game states, optimizing system responsiveness and input detection.
  - Programmed state machines to handle various game actions, including random action selection, input validation, and success/failure feedback using RGB LEDs and a LiquidCrystal 1602 display.

- **Nommies: Social Media Platform for Food Lovers** — *June 2024*
  - Developed a full-stack social media platform for sharing restaurant experiences using **ReactJS**, **NodeJS**, and **MongoDB** for both frontend and backend.
  - Implemented **Google Auth** and email/password authentication for secure user account management with flexibility for multiple login options.
  - Designed and developed features for personalized user profiles, restaurant search, and user reviews, optimizing database queries for performance.

- **Happy Clicker: iOS Application** — *July 2023*
  - Designed and developed the user interface of an iOS application using **Swift** and **SwiftUI** to create a daily counter for tracking positive feelings and reinforcing a positive mindset.
  - Implemented a visually appealing and user-friendly layout for data entry, personalized feedback, and seamless interaction.

EXPERIENCE

- **Residential Technical Assistant**
  University of California, Riverside — *September 2023 - Present*
  - Provided technical support to residents and external clientele through email, phone, and in-person meetings, effectively addressing inquiries, troubleshooting audio/visual equipment, computer setups, and internet connectivity issues.
  - Collaborated with a team of 10 members to manage and optimize resources, ensuring timely setup and execution of events and technical tasks, meeting all set deadlines efficiently.

- **Executive Board Scribe**
  Theta Tau, Co-Ed Professional Engineering Fraternity — *March 2023 - Present*
  - Maintain accurate and detailed meeting minutes for all executive board meetings, ensuring clear communication and documentation of key decisions and action items.
  - Manage and guide multiple teams in the development and maintenance of the organization website, as well as coordinating photography and social media efforts to maintain a consistent and professional online presence.