Daniel Hyun Kim

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EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS   **Graduation Month: June 2026**
B.S. Computer Science   **GPA: 4.00**

EXPERIENCES

COSMOS UC DAVIS, Internet of Things Cluster   **Summer 2021**
- Worked with code in C utilizing interrupts, and understood how data is sent through wireless connections
- Worked with UC Davis professors to develop my own projects using a microcontroller that can be applied to the real-world

CURIEUS, Co-Director of Technology   **2021 - 2022**
- Empowered underprivileged students in the field of technology by inventing curriculum using Scratch and HTML to be distributed to chapters and workshops around the U.S.
- Taught students concepts in technology including coding, virtual reality, and other STEM topics at libraries and the Boys and Girls Club

OMNISCIENT CRM, Summer Software Intern   **Summer 2019**
- Worked on email templates for the company and created user guides for the company's product
- Created a LAMP server and WordPress site on a Linux platform
- Technologies Used: HTML, CSS, JavaScript, Linux, Jira

COMPETITIVE PROGRAMMING   **2018 - Present**
- Actively learning about how to optimize time and memory through algorithms and data structures
- Concepts Utilized (C++) - (Big O notation, stacks, queues, sorting algorithms, binary search, recursion, flood fill, linked list, DFS, BFS, Dynamic Programming)

PROJECTS

- **Interact** (2023 Stanford Treehacks Project), created using Godot Engine and GDScript
  - Developed a RPG game that provides a preliminary diagnosis for ADHD depending on how you interact with the controls, environment, dialogues, and mini games, using common symptoms listed by the DSM-V testing for inattention and hyperactivity.
- **Mem Extension**, created using HTML, CSS, JavaScript
  - Developed a Google Chrome Extension using Mem's REST API to save either the current tab or every tab in a window into a page in Mem via an API key given by the user. The user is also given the choice to add notes to the page or choose to be given the three most relevant words from the current tab.
- **Gesture Detector**, created using C
  - Developed a program that detects letters in the alphabet using the accelerometer on a microcontroller that can be registered and sent wirelessly to my computer.
- **Confidence Detector**, created using C
  - Using the microphone on the microcontroller and a virtual gauge, I developed a measurement of how loud a volume is around the microcontroller in order to measure the level of sound my Tae Kwon Do students produced.

CURRENT AND UPCOMING COURSEWORK (By Summer 2023)

- Programming & Problem Solving
- Software Development & Object-Oriented Programming in C++
- Discrete Mathematics For Computer Science

LANGUAGE AND TECHNOLOGIES

- Java, C++, C, HTML, Python, GDScript, JavaScript, React.js, Git
- Unix/Linux, MacOS, Windows