Jonathan Kook

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Education

University of California, San Diego	La Jolla, CA
Bachelor of Science - Computer Engineering	September 2023 - Present
Santa Monica College	Santa Monica, CA
Bachelor of Science - Computer Science	August 2021 - August 2023

Relevant Coursework

⋄ Software Engineering ⋄ Advanced Digital Design ⋄ Advanced Data Structures ⋄ Operating Systems ⋄

⋄ Electrical and Computer Engineering ⋄ Product Engineering ⋄ Engineering Probability and Statistics ⋄

⋄ Design and Analysis of Circuits & Systems (Analog / Digital) ⋄ Design and Analysis of Algorithms ⋄

Technical Skills

⋄ C ⋄ C++ ⋄ Java ⋄ Javascript ⋄ Typescript ⋄ Python ⋄ HTML ⋄ CSS ⋄ SQL ⋄ PostgreSQL

⋄ System Verilog ⋄ Assembly ⋄ KiCad ⋄ Onshape ⋄ PSpice ⋄ Cadence ⋄ Solidworks ⋄ Soldering

⋄ Lab Equipment (Oscilloscope, Multimeter, Function Generator, etc…)

Projects

Line Following Car

- Developed a C++ program to detect track layouts and control motors in response to track features
- Designed a custom protoboard, integrating components such as an Arduino for code deployment, photoresistors for accurate light-level sensing, and potentiometers for SPID (speed, proportional gain, integral gain, derivative gain) adjustment
- Designed and 3D-printed a durable chassis

Wardrobe Web App

- Developed and designed a personalized IOT wardrobe management app with a secure authentication portal and AI-assistant
- Register and monitor IOT sensor devices, tracking real-time environmental data and temperature trends
- User/sensor data encrypted and stored securely in SQL database

Work History

Cashier at Kyodong Noodles *(San Diego, CA)*	September 2023 - October 2024
Server / Host at Mutsumi Sushi *(Chatsworth, CA)*	June 2021 - September 2023