

Abhishek Subandh

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Education

University of California, Irvine
Bachelor of Science in Computer Engineering

Expected Jun 2024

Relevant Coursework: Intermediate Software Design in Java, Advanced C Programming, Discrete Mathematics, VLSI, Organization of Digital Computers, Network Analysis II, Discrete-Time Signals and Systems, Computer Networks, Electronics II, Processor Hardware/Software Interfaces, System Software, Data Structures and Algorithms

Skills

Languages: Python, Java, C/C++, HTML/CSS, Assembly, Matlab

HDL/Synthesis: Verilog, VHDL, Xilinx Vivado, LTspice, Cadence Virtuoso

Technologies: Flask, Autodesk Inventor, Git Version Control, Microsoft Office Suite

Lab Equipment: Oscilloscope, Multimeter, Breadboard, Soldering

Project Experience

CropCube: Python, Raspberry Pi, Blynk

Dec 2023

- Designed and built an embedded system to automate a hydroponic vertical farm.
- Soldered growing lights, temperature/humidity sensor, fan, and solenoid valve to Raspberry Pi Pico W
- Pitched product to panel of judges and reached semifinalist round at sustainability hackathon

Building Management System: Python, Raspberry Pi

May 2023

- Created a management system for buildings that controls electrical equipment and monitors ambient changes
- Designed a security system, fire alarm system, HVAC/light control, and generated an estimated energy bill
- Developed a UI featuring an LCD display and buttons to display real time status updates

Checkmate with BTS: C

May 2022 – Jun 2022

- Led a team of 4 to create a K-pop themed chess application, featuring a virtual assistant.
- Developed the AI for the Computer vs. Player mode in the C programming language, allowing users to play against a computer opponent.
- Worked inside a Linux server environment utilizing the Git version control system

Work Experience

Taco Bell, Campbell, CA

Jun 2018 – Aug 2018

- Provided friendly and efficient service to patrons in a fast paced environment as a drive-thru operator
- Prepared food as a kitchen team member in a timely manner during rush periods

Volleyball Coach USYVL, Palo Alto, CA

Apr 2017 – Jun 2017

- Coached kids in 4-6th grade on how to play volleyball
- Fostered good teamwork skills between kids by emphasizing the importance of communication