

## **Objective**

Computer Science Internship

## **Summary**

As a Junior Computer Science student at Santa Clara University (SCU), I'm searching for an internship to apply and enhance my programming knowledge. My experience with various programming languages and hardware systems, combined with my leadership skills, makes me confident in taking on programming challenges during an internship.

## **Education**

Santa Clara University, Santa Clara, CA  
B.S. In Computer Science (Data Science Emphasis) - Dec 2024

## **Technical Skills**

- Programming Languages - Scratch, Javascript, Java, Python, C/C++, VerilogHDL, Assembly, Scala.
- Tools - Greenfoot, BlueJ, Atom, Intel FPGA Quartus Prime Design, Questa - Intel FPGA Edition, XCode, Microsoft Visual Studio, Linux, AWS, John the Ripper, Wireshark.

## **Projects**

- Computer Security - Coded and deployed(using C, Python, and AWS) various attacks, including SETUID, Buffer Overflow, and String Format attacks.
- Algorithms - Devised various algorithms by applying techniques including but not limited to Decrease and Conquer, Huffman Encoding, Dijkstra's Algorithm, and Decision Trees.
- Data Structures - Developed a program (using C++, Unix, and Atom text editor) to create a binary tree of pluses, multiplication symbols, and integers; this program would add or multiply the integers to output a final product.
- Introduction to Logic Design - Created a programmable counter, using Verilog, Intel's Quartus Prime Design Software, and an Intel DE2-115 board; this program would continue to count from a predetermined initial value to a maximum value, with pause and resume functionality.
- Introduction to Embedded Systems - Created three Assembly functions that would convert a date into a day of the week using Zeller's Rule, using the following guidelines: using no MUL instructions, using no SDIV/UDIV instructions, and using no MUL instructions and no SDIV/UDIV instructions.

## **Extracurriculars**

- SCU Creative, Augmented, and Virtual Environments (CAVE) Laboratory - SwingBeats - Create, test, and debug haptic feedback ankle bracelets (HFABs) by soldering HFAB circuitry and running Arduino test programs.
- SCU Ethical, Pragmatic, and Intelligent Computing (EPIC) Laboratory - TailorEd - Assisted in the development of a tool (used by SCU professors) that helps identify classroom environments and teaching styles that best support student learning.

- SCU Society of Women Engineers - SWE++ Committee - Promoted gender inclusivity and diversity by teaching Scratch and Python to middle school girls.
- University of Michigan (via Coursera) - Python for Everybody Specialization.
- SCU Middle Eastern North African Club Board Member - Contributed to the creation of a safe space for MENA-identifying students and allies through hosting informative meetings and events surrounding MENA culture and current events.

## **Professional Experience**

Santa Clara University, Community Facilitator

August 2022 - June 2023

- Created a safe and comfortable environment for students living in SCU's Graham Residence Hall.
- Planned quarterly events, such as community conversations or self-care nights, to build community and ease new students' transition into university life.
- Member of the Dining Operations Committee - Contributed to the improvement and expansion of dietary options.