

Parker Mitchell

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Education

California Polytechnic State University, San Luis Obispo

PURSuing A BS IN COMPUTER SCIENCE

GPA: 3.89

San Luis Obispo, CA

Sep 2017 – Jun 2021

Relevant Coursework

OBJECT-ORIENTED PROGRAMMING, SYSTEMS PROGRAMMING, ALGORITHMS, DATA STRUCTURES

San Luis Obispo, CA

2017 – 2019

Work Experience

Viasat Inc.

SOFTWARE ENGINEER INTERN

- Reduced test times for board-level test procedures by up to 33% by developing a toolkit with LabVIEW and TestStand that replaced excessive hardware controllers
- Implemented a feature to test multiple devices simultaneously via threading within a test executive software
- Developed Python parsing scripts to extract critical information from test plans to drive test procedures
- Automated file conversions to allow different hardware controllers to interface with one another

Carlsbad, CA

June 2019 – Aug 2019

Viasat Inc.

LAB TECHNICIAN

- Performed network auditing and planning to improve management of IP Addresses
- Handled logistics regarding a group's relocation to a new building
- Updated new building drawings and documentation

Carlsbad, CA

June 2018 – Aug 2018

Cal Poly Computer Science Tutor

TUTOR

- Aiding students' understandings of fundamental computer science topics and assignment specific problems

San Luis Obispo, CA

June 2019 – Present

Skills

Programming Languages: Python, C, Java, JavaScript

Web Development: ReactJS, Material-UI, Bootstrap, HTML/CSS

Soft Skills: Collaborative, Adaptable, Communicative, Driven

Projects

C Shell

A SHELL PROGRAM THAT BEHAVES SIMILAR TO BASH. HANDLES PIPES, FILE REDIRECTION, AND MOST UNIX COMMANDS. THIS UTILIZES MANY SYSTEMS PROGRAMMING CONCEPTS, SUCH AS SETTING UP A PIPELINE FOR MULTIPLE COMMANDS, AS WELL AS FORKING AND EXECUTING DIFFERENT PROCESSES.

Please request to view code if interested.

LZW and Huffman Compression

PROGRAMS THAT IMPLEMENT THE LZW AND HUFFMAN COMPRESSION ALGORITHMS. LZW COMPRESSION DONE IN C, UTILIZING VARIABLE LENGTH BIT-PACKING TO COMPRESS FILES. HUFFMAN COMPRESSION DONE IN PYTHON.

C, Python

Please request to view code if interested.

Personal Website

A WEBSITE BUILT USING REACTJS AND MATERIAL-UI TO OUTLINE MY WORK EXPERIENCE AND PERSONAL PROJECTS.

ReactJS, Material-UI

Please request to view code if interested.

Earthquake Finder

A PROGRAM THAT DISPLAYS PRESET EARTHQUAKES AND ALLOWS YOU TO SORT THEM BASED ON SPECIFIC CRITERIA. IT ALSO CAN DISPLAY NEW QUAKEs BY PARSING JSON DATA FROM [HTTPS://EARTHQUAKE.USGS.GOV](https://earthquake.usgs.gov).

Python

Please request to view code if interested.

Achievements

2017-

Present

Dean's List - 6 Quarters, Awarded for attaining a GPA of 3.5 or greater at the end of a quarter

Cal Poly, San Luis

Obispo