A.J. Fite

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Summary

I am a senior computer engineering undergraduate in my final two quarters at Cal Poly. My primary field of interest is embedded systems and firmware programming but I am open to almost any opportunity. I am currently looking for full time employment after I graduate in December. Willing to relocate.

Education

B.S. Computer Engineering
California Polytechnic State University, Graduating Senior

September 2011 — December 2018
San Luis Obispo, CA

Work Experience

QA Intern
Scientific Drilling
- Starting April 23rd

April 2018 — Present
Paso Robles, CA

IT Intern
TransUnion Interactive
- Part of a team of four responsible for end user support of 1400+ employees located across multiple countries
- Managed Windows and OS X laptop and desktop computers in person and remotely
- Managed, including imaging, setting up, and end user support for 3000+ virtual machines on VMWare's ESXi platform and VCenter
- Deployed software and group policy on Windows machines via SDDM
- Deployed software and managed OS X machines using Absolut Manage
- I had a high rate of ticket closure and low reopening rate, closing as many tickets as other full time members of the team consistently

June 2016 — June 2017
San Luis Obispo, CA

Lot Tech/Cashier
The Home Depot

October 2015 — June 2016
San Luis Obispo, CA

Marketing/Admin Intern
Sesame Communications
- Primarily responsible for streamlining the company's SalesForce database, including deduplication and normalizing information
- Assisted IT as needed setting up new users and workstations
- Assisted the comptroller with financial data archiving and destruction

April 2014 — September 2014
Seattle, WA

Human Resources Technology Intern
Sesame Communications
- Primarily responsible for all aspects of overhauling and replacing the company wide intranet knowledge base and document share, transitioning from an outdated Sharepoint site to Atlassian's Confluence
- Wrote plugins for the new Confluence based intranet site in Java

June 2013 — September 2013
Seattle, WA

Personal and Academic Projects

Solar Micro-Forecasting
My senior project, using computer imaging to predict near term cloud cover at solar facilities.

Remote Telemetry Station
My CPE 329 final project, a device that uses the TI MSP432 and custom C code to interface with a variety of sensors and report on environmental conditions.

Tractor Hacking
My Computer Engineering Capstone project, reverse engineering the communications protocol used in John Deere tractors. More information at: tractorhacking.github.io

Baseball-Pi
A Raspberry Pi Zero W based live MLB scoreboard using SPI and I2C based display modules and LEDs. A work in progress.

VHDL Processor
My CPE 233 final project, a full 8-bit processor built from the ground up on a Xilinx FPGA.

Server Administration
I run a large system of personal servers including VMWare ESXi virtualization, nginx web servers, a Jenkins build server, and more. ajfite.com/webservices

iFixit Manual
I worked in a 4 person team to write a professional teardownn and repair manual for the Palm Treo Pro cell phone.

Clubs and Volunteering

- Shack Manager - Cal Poly Amateur Radio Club 2017-Present
- Radio Operator and Event Support - San Luis Obispo Bicycle Club 2016-Present
- Radio Dispatch and Event Support - Wildflower Triathalon 2018-Present
- Volunteer - Habitat for Humanity of San Luis Obispo 2018-Present
- Webmaster and Social Media - Cal Poly Whovians (defunct) 2012-2015

Selected Coursework

- CPE 357 - Systems Programming (C)
- CSC 365 - Introduction to Database Systems (SQL/MySQL)
- CPE 329 - Programmable Logic and Microprocessor-Based Systems Design (C)
- CPE 350 & CPE 450 - Capstone Project (See projects section above)
- CSC 436 - Mobile Application Development (iOS/Swift)
- CPE 315 - Computer Architecture (C/Java/MIPS Assembly)
- CPE 464 - Introduction to Computer Networks (C/C++)
- CPE 101/102/103 - Fundamentals of Computer Science (C/Java)
- EE 306 - Semiconductor Device Electronics
- EE 307 - Digital Electronics and Integrated Circuits
- PHIL 327 - Robot Ethics
- CPE 133 - Digital Design (VHDL)
- CPE 233 - Computer Design and Assembly Language (VHDL/Assembly)
- CPE 123 - Introduction to Computing (Racket)
- ENGL 149 - Technical Writing