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I'm currently working as a python developer at Dell EMC. I've developed product code for data mobility, stats telemetry, PAPI API, and platform infrastructure. I entered the industry full-time after high school. I built a foundation of knowledge through disciplined self-study and feature design. Before that, I was in the top 10% of my class with a 3.95 GPA and 2040 SAT score. I have 6 years of software engineering experience and have been working in the technology industry for 10 years. I am a strong conceptual learner with the drive to improve quickly. I develop creative solutions to complex problems. I am extremely analytical and frequently propose methods to improve existing development tools, libraries, and processes. I enjoy creating demos, mentoring others and designing new projects. I've received positive feedback on my inventiveness, analytical thought process, ability to learn quickly, and personal integrity. I've been recognized for my willingness to teach others. I'm passionate about technical writing and documentation management. I enjoy writing nonfiction in my spare time. I'm open to python development and technical writing roles. My long-term career goal is to conduct academic research in the field of Computational Neuroscience.

Software Engineer II - Data Mobility
Dell EMC, Remote
June 2021-Present

- Created helper library to parse through data transfer data returned by a GET request to the appropriate endpoint. Tested the creation and deletion of each new job type.
- Wrote an equation to calculate dataset size using a set of parameters. Tested the impact of more files per directory by reducing the number of directories to achieve the same data size. Created test suites to transfer these prepared datasets using separate processes.
- Completed significantly to major release
- Created a program that lists all import dependencies for all files within a directory (recursive) and tests each import in python 2 and 3 to determine if uplift is required
- Created programming tutorials on uplift process, log parsing, and Git Workflow
- REST delete handler for data transfer jobs

Software Engineer II - Platform Services
Dell EMC, Hopkinton MA
February 2019-June 2021

Software Engineer II, Platform Services

- Advanced, object-oriented python
- Embedded system development in python and C
- Interviewed graduate students for intern and full-time software positions
- Created and presented tutorials with carefully selected code examples
- Mentored several software hires and created missing training resources
- Highly self-motivated to learn new tools and concepts
- Comfortable with API design, network configuration, and multiprocessing
- Test driven feature development
- Docker, Jenkins, GIT source control, Jenkins, Agile, virtualenv, cluster management
- Comfortable working in Linux and FreeBSD
- Python 2 to 3 uplift project
- Co-Lead telemetry statistic key design project
- Significant contributions to OneFS NVDIMM design
- Generated product design documents using Latex
- Highly experienced in all Microsoft tools, including Visio

Mercury Systems, Andover MA
June 2016-January 2018

Software Development for Release Engineering

- Created infrastructure to encrypt and decrypt information shared between systems
- Generated several web pages with PHP to display metrics from a
- MySQL database
- Normalized Database design
- Wrote a bash script to manage directory creation and update documents on the FTP site
- Automated Bamboo jobs
- Transferred results from Clearcase commands across servers in real time

Python Developer
Mercury Systems, Chelmsford MA
June 2015-July 2016

- Created python script to automate serial communication between ports
- Create program to test fans by sending RF commands to new Navy ship antenna
- Experience with i2c, SCPI, and Visa modules
- Scripted a graphical interface using trigonometry to calculate and set angle dial arrow to accurately display board temperature data in real time. I wrote the trigonometry equations into the code. The math was entirely accurate and efficient.
- Scripted i2c bus to test a LED display, using a Raspberry Pi as the master device
- This was the board I had designed the previous summer

Summer 2015

- Entry level electrical design
- Used simulation software to test circuitry
- CAD design

Summer 2013 and 2014

- Wrote technical documentation
- Designed simple CAD features
- Managed backplane project by organizing meetings and tracking progress
- Created documentation for the backplane design process using Visio, Excel, and Word software
- Assisted in the design of a batch script that converts one file type to another for thousands of documents

Summer of 2012

- Product technical writing
- Entry level mechanical design

F**ranklin High School, Franklin, MA**
Graduated 2013- GPA 3.95, Top 10% of Graduating Class - 2040 SATS - 5 on AP Calculus Exam Math Level II- 720 Writing- 700 Math- 670 Reading- 670