Michael Dresser

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Skills:

Languages: Python, C++, C, Java, Bash, SQL, Scheme, HTML/CSS

Technologies: Git, Linux environments/administration, Spring, RADIUS, AWS Lambda, Heroku

Project management: Small team management, organizing data and materials, spreadsheet management

Work Experience:

overWatch.ID Denver, CO   2017-present

Software Development Intern

- Developed Python script for RADIUS authentication through a REST call, currently in production.
- Developed Java (Spring) service with usage of SQL for integration with multiple ITSM products' APIs.
- Created and managed CentOS servers in an AWS-based environment.

CU Boulder Office of Information Technology Boulder, CO   2016-2017

Student Computer Support Technician

- Provided support with virus/spyware remediation, email setup/transfer, printer setup, driver installation, software installation/uninstallation, OS reinstallation/setup, network issues, OS boot failure recovery, data recovery.

Gunn Robotics Team Gunn High School, Palo Alto, CA   2014-2016

CNC Lead, CNC Machinist

- Fabricated complex aluminum parts, organized team scheduling, planned and executed training program for other students, and improved machining efficiency by over 30% to mitigate a 100% increase in part load.

Strategy Lead

- Formed/lead group to inform robot design and developed a new scouting system that aided in playoffs matches.

Projects:

Space Invaders   2016

- Implementation of Space Invaders in Python using PyGame.

Elm Talk to Obama – HackCU Local Hack Day   2016

- Webpage written in Elm to pull data from the talk-to-obama service and display it.

Her / Alexa Clever Bot – Tackle STEM Hackathon, Best Demo   2016

- Alexa Skill that provides more meaningful conversations with Alexa. Utilizes AWS Lambda and the Alexa SDK.

Markov Server – Tackle STEM Hackathon   2016

- Flask server that outputs sentences generated by a Markov chain from a source text.

Obama Meme Generator – Tackle STEM Hackathon   2016

- Generates memes from pictures of Obama and Markov-generated sentences from the talk-to-obama service.

Scouting Data Entry and Analysis   2016

- Application using openpyxl and Tkinter for data entry into spreadsheets. Data pulled into a master analysis sheet.

Maze Game   2016

- Maze-solving game, with a unique mechanic, in C++ that can import a rectangular user-defined maze of any size.

Packet Sniffing   2015

- Python application developed from a guideline using Scapy to take .pcap files and analyze their contents.

Coursework:	Computer Systems	Linear Algebra	Discrete Structures
	HC Computing Prof. Dev.	CS 2: Data Structures	Software Dev. Methods and Tools
	CS 1: Starting Computing	Calculus 1 and 2	General Physics 2

Education: University of Colorado Boulder, B.S. Computer Science   *expected May 2020*

Awards: Tackle STEM 2016 Best Demo   National Merit Scholarship Finalist