Michael Dresser

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

Skills:
Languages: Python, C++, C, Java, Bash, SQL, Scheme, HTML/CSS
Technologies: Git, Linux environments/administration, Spring, RADIUS, AWS Lambda, Heroku

Work Experience:

overWatch.ID Denver, CO Software Development Intern 2017-present
- 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.
- Wrote extensive test plans for the product.

CU Boulder Office of Information Technology Boulder, CO Student Computer Support Technician 2016-2017
- Resolved technical issues, including viruses, boot failure, and general troubleshooting, for students and faculty.
- Saved customers' data on multiple occasions following operating system and/or hardware failure.
- Removed viruses, installed software, resolved boot failure, and performed general troubleshooting and resolution.

Gunn Robotics Team Palo Alto, CA CNC Lead, CNC Machinist, Strategy Lead 2014-2016
- Lead and organized the CNC team, including recruitment, training, and scheduling.
- Improved machining efficiency by over 30% to mitigate a 100% increase in part load.
- Lead and organized the strategy team, including training, data analysis, and coordination with other groups.
- Developed scouting systems that lead to playoff success by picking low-seeded yet effective allies.

Individual 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.

Scouting Data Entry and Analysis 2016
- Application using openpyxl and Tkinter for data entry into spreadsheets. Data pulled into a master analysis sheet.

Packet Sniffing 2015
- Python application developed from a guideline using Scapy to take .pcap files and analyze their contents.

Coursework: Computer Systems, Data Structures, Software Dev. Methods and Tools, Linear Algebra, Discrete Structures

Awards: Tackle STEM 2016 Best Demo, National Merit Scholarship Finalist