Michael Dresser

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

Skills:
Languages: Python, Go, Java, C++, C, Javascript, SQL, Scheme, HTML/CSS
Technologies: GCP Pub/Sub, Elasticsearch, Git, Linux, Microservices, InfluxDB, REST, Spring, RADIUS, Heroku

Work Experience:

LogRhythm Boulder, CO   Software Engineering Intern   2018
- Developed addition to Go microservice to write over 50,000 logs/minute to GCP Pub/Sub.
- Developed Go microservice that queries Elasticsearch to prevent PII cross-contamination.
- Added InfluxDB statistics recording to existing microservices to increase visibility of product usage.

OverWatchID Denver, CO   Software Development Intern   2017
- 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 environment.

CU Boulder Office of Information Technology Boulder, CO   Student Computer Support Technician   2016-2017
- Resolved technical issues like viruses and boot failure and troubleshot issues for students and faculty.
- Saved customers' data on multiple occasions following operating system and/or hardware failure.

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.
- Developed scouting systems that lead to playoff success by picking low-seeded yet effective allies.

Other Experience:
CU Cybersecurity Club Boulder, CO   Events Manager   2018-present
- Planned and organized weekly meetings for the club, started the club CCDC team.

Individual Projects:
NetEng DDOS – Facebook CU NetEng Hackathon 2017, Security Winner   2017
- Packet flooding DDOS script, including port scanning, using Scapy and threading.

Space Invaders   2016
- Implementation of Space Invaders in Python using PyGame.

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
- Python application using openpyxl and Tkinter for easy data entry into scouting spreadsheets.

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

Coursework: Algorithms   Operating Systems   Data Science Algorithms
                    Computer Systems   Linear Algebra   Software Dev. Methods and Tools
                    Discrete Structures   Data Structures