

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 troubleshoot 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.

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

Computer Systems

Discrete Structures

Operating Systems

Linear Algebra

Data Structures

Data Science Algorithms

Software Dev. Methods and Tools