

Michael Dresser

(650) 521-3046

michaeldresser@gmail.com

michaeldresser.io

Education: University of Colorado Boulder, B.S./M.S. Computer Science *expected Dec 2020*

Skills:

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

Technologies: Linux, Microservices, GCP, AWS, Docker, Kubernetes, Git, REST, Elasticsearch, InfluxDB

Work Experience:

- Twilio Denver, CO Software Engineering Intern 2019
- Designed and laid out a development plan for a service to enable testing. Moved that service into Kubernetes. It was quickly in use by 3 teams and allowed one of them to automate flows they hadn't been able to for a year.
 - Migrated legacy VM-based service into Kubernetes, saving up to an hour of developer time for every release.
 - Created service and automatic pipeline to recover failed operations by recirculating Kafka messages.
- 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.
 - Developed Java (Spring) service for integration with multiple ITSM products' APIs.
- CU Boulder Office of Information Technology Boulder, CO Student Computer Support Technician 2016-2017
- Resolved technical issues like viruses and boot failure and troubleshooted issues for students and faculty.
 - Saved customers' data on multiple occasions following operating system and/or hardware failure.
- 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:**
- SchemeInterp 2017
- Scheme interpreter written in Go.
- 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.

Coursework: (Graduate) Algorithms (Graduate) Operating Systems Data Science Algorithms
Computer Systems Sabermetrics Data Mining
Big Data Architecture Datacenter Scale Computing Linux SysAdmin