Michael Dresser

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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:

CU Boulder Computer Science Boulder, CO   Graduate Student Staff   2019-present
- Held office hours to aid students enrolled in Linux Systems Administration with coursework
- Course material includes bash scripting, logical volumes, configuration using Puppet, access control, manual and DHCP configuration of network interfaces, DNS server configuration, and firewall configuration using iptables.

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.

OverWatchID Denver, CO   Software Development Intern   2017
- 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.

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   2019
- 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.

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