

# Michael Dresser

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

## Skills:

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

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

## Work Experience:

Google Remote Software Engineering Intern 2020-present

- Contributing to Kubernetes test infrastructure by designing and implementing an improved cluster deployer (migrating from Bash to Go) for GCE, which the majority of Kubernetes end-to-end testing runs on.

CU Boulder Computer Science Boulder, CO Graduate Student Staff 2019

- 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 Go 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

- Designed and implemented Java (Spring) service for integration with multiple ITSM products' APIs.

## Other Experience:

CU Cybersecurity Club Boulder, CO Events Manager 2018-present

- Planned weekly meetings for the club and reworked meeting norms to be more hands-on.
- Designed lesson plans to quickly get new members up to speed, regardless of prior experience.

## Individual Projects:

Sudoku 2019

- Sudoku solver written in Clojure.

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.

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.

<b>Coursework:</b>	Grad. Algorithms	Operating Systems	Linear Programming
	Machine Learning	Data Mining	Grad. Programming Languages
	Big Data Architecture	Datacenter Scale Computing	Linux SysAdmin