# Michael Dresser

(650) 521-3046 michaelmdresser@gmail.com michaeldresser.io

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

**Skills:**
Languages: Python, C++, C, Java, Bash, SQL, Scheme, HTML/CSS
Technologies: Git, Linux/Unix, Spring, RADIUS, AWS Lambda, Heroku

**Work Experience:**

overWatch.ID Denver, CO Software Development Intern 2017-present

- 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-based environment.
- Wrote extensive test plans for the product which resulted in discovery of over 40 bugs in first two weeks.

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.
- Improved machining efficiency by over 30% to mitigate a 100% increase in part load.
- Lead and organized the strategy team, including training, data analysis, and coordination with other groups.
- Developed scouting systems that lead to playoff success by picking low-seeded yet effective allies.

**Individual Projects:**

Space Invaders 2016

- Implementation of Space Invaders in Python using PyGame.

Elm Talk to Obama – HackCU Local Hack Day 2016

- Webpage written in Elm to pull data from the talk-to-obama service and display it.

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

- Application using openpyxl and Tkinter for data entry into spreadsheets. Data pulled into a master analysis sheet.

Packet Sniffing 2015

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

**Coursework:** Computer Systems, Data Structures, Software Dev. Methods and Tools, Linear Algebra, Discrete Structures

**Awards:** Tackle STEM 2016 Best Demo, National Merit Scholarship Finalist