Eli W. Hunter

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EDUCATION

NC STATE UNIVERSITY | BS Comp. Sci. & Applied Math   Raleigh, NC | Aug. 2018 - May 2022
GPA: 4.0

EXPERIENCE

NOREGON | Software Engineer Intern   Greensboro, NC | May 2019 – Aug. 2019

- Worked with sales, operations' support, and product management to create a web portal for data visualization and access using Flask, Bokeh, and Pandas, enabling rapid, data-driven decision-making.
- Assisted with modelling of vehicle faults using NetworkX graphs.

AERIAL ROBOTICS CLUB | Software Team Lead   NC State University | Sept. 2018 – Present

- Compete in international UAV competitions.
- Manage 8+ person team, managing deadlines, project assignments, and mission objectives.
- Run weekly meetings and project retrospectives.
- Sysadmin all Linux machines for the club.
- Redesign all flight subsystems to follow client-server RPC model.
- Create and maintain club's provisioning and container infrastructure.
- Enhance algorithm that geolocates ground targets using aerial imagery.

RALEIGH VENDING | Contract Web Designer   Raleigh, NC | Jan. 2019 – May 2019

- Designed three websites, using the Bootstrap web framework, for the three divisions of Raleigh Vending with Kasimir Schulz.
- Regularly met with company owners to demo progress.

PROJECTS

COOKBOOK | Go, REST, 12-Factor App Design   https://github.com/elihunter173/cookbook
Create CLI and RESTful webserver produce high quality LaTeX, PDF, and HTML documents from recipes specified via YAML/JSON. Learn about modern web service and software-as-a-service design. Deploy webserver via containers and distribute software via Go modules.

SBGC SERIAL API REWRITE | C++, CMake, Serial Ports   https://github.com/ncsuarc/sbgc-api
Rewrote BaseCam Electronics C/C++ Serial API to provide a higher-level API, wrap that higher-level API in Python, create unit tests, document code, and standardize code style.

TWEETERBOT | Python, Pipenv, Twitter API, JSON   https://github.com/elihunter173/text-generator
Created a Twitter bot that randomly tweeted a sentence using a hand-crafted JSON dictionary, making sure that basic grammar rules were followed. Deployed on a Raspberry Pi using cron for scheduling and Pipenv for Python dependency management.

PERSONAL WEBSITE | Docker, Docker Swarm, SSL   https://github.com/elihunter173/website
Created my personal website using Jekyll and Marx CSS, self hosted via Docker Swarm at my house. Fully maintain the website, the SSL certificates, and the network infrastructure required to run the website.

SKILLS

Languages	Go, Python, C/C++, Rust, Java
Tools	Linux, Docker, Ansible, Nginx, Git
Libraries & Frameworks	Protobuf, ZeroMQ, Flask, Pandas, Bokeh, Bootstrap