

# Christopher Ault

<http://chris-ault.rocks/>  
[linkedin.com/in/chris-ault/](https://www.linkedin.com/in/chris-ault/)

I am a dedicated, focused and creative computer scientist with practical skills in software development, testing, and CI/CD. I am looking to join a growing team where I can contribute and advance my skills as an engineer. Willing to relocate.

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## Skills

- Platforms: Linux, Windows, Docker, AWS (EC2,S3,Route53,Cloudfront), GCP(Instances, networking, firewalls, logging), Azure(Instance deployment), Packer, VMware, Virtualbox, Cisco UCS (Raid configuration & CMIC interface)
- CI/CD/VC: Jenkins, Bitbucket & Gitlab(Pipelines & VC), GitHub, Groovy, Git, Selenium, BATS, Python Unittest, Jira, Trello, Confluence, PagerDuty
- Languages/API's: Python, Salt automation, Kubernetes, Unleash Feature Flag System, Pandas, Cloud-init, Bash, Make, Dash, Plotly, Matplotlib, Flask, Django, Jupyter, Terraform, Java, C
- RDBMS: PostgreSQL, MySQL, Papertrail
- ORM: SQLAlchemy, Pony
- Embedded: DD-WRT, Arduino, RaspberryPi, BeagleBone, WeMos, MQTT

## Professional Background

- **Zenoss - DevOps / SRE** - (4/2021 - Current)
  - Automate feature flag management with CI/CD using a github repo integrated with Jenkins job triggered via webhook.
  - Jenkins job development and maintenance with Groovy language
  - Use Cloud Init to configure network interfaces consistently across GCP, AWS and Azure instances.
  - Provide On-Call 24/7 support of Zenoss platform and cloud instances.
- **Minimal Metrics - Software Engineer** - ( 10/2018 - 8/2020 )
  - Worked in the development of an end to end performance measurement system, providing outlier detection for data processing of a government client system while maintaining zero downtime.
  - Completed a government contract with quarterly releases, providing in-depth process analysis of 2.5B processes per day and outlier detection at a high level overview.
  - Developed a drill-down workflow interface using Python, Plotly and Dash Front end that communicated with a PostgreSQL and Pony backend.
  - Communicated directly with the customer providing product installation assistance and addressing issues
  - Authored python unit tests and integration tests using BATS framework
- **UWF - Cybersecurity Web Application Developer** - ( 8/2018 - 12/2018 )
  - Answered high level, security oriented questions regarding common malware categories and behaviors.
  - Automated orchestration of virtual machines to disassemble, analyze and record malware behaviour using Python scripting.
  - Parse binaries using PE file disassembly to assist in the development of a large, 20M row database. - <https://github.com/chris-ault/TrojanTriage>

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## Accomplishments

- ***First Place, UWF CodeFest***: Software engineer in a team of four competing in a 48 hour coding challenge. Topic: Education. 2018
- ***Spot instance Web Crawler w/ NLP***, Senior Capstone Project:  
Led team of four to develop a cloud based web crawler which used Natural Language Processing to do research and information gathering. 2018  
Technologies: AWS, Ubuntu, GIT, SFTP, Java, Elasticsearch, JavaFX, NLP(Parts of Speech Library) - <https://github.com/chris-ault/keimono>

## Education

- University of West Florida 2018, B.S. Computer Science - Cybersecurity

## Hobbies

- ***Deploy a bare metal kubernetes node*** on a Cisco UCS platform with RAID.  
Configure a x server bound docker for running legacy Flash management CMIC interface in browser. (2021)
- ***Revamp Legacy home security system*** into motion activated music player with the ability to send phone alerts on door triggers and OTA updates. (2020)  
Technologies: Beaglebone, WeMos, Python, MQTT, mDash, HTTP
- ***Ultra low power Wi-Fi motion sensor*** (2019)  
Technologies: ESP32, MPU6050, Push bullet web API  
<https://github.com/chris-ault/MotionDetector>
- ***Smart Smoker*** powered by industrial control setpoint logic to accurately set temperature. (2020)  
Technologies: Arduino, i2c, PID, LCD  
<https://github.com/sp33dsk8/smokerTune>
- Build, configure, fly and crash UAVs (3DR Solo, Trex 450)
- WiFi Shed temperature/humidity monitor with motion sensing and fan control
- Cycling & Running