

Summary

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

Skills

- Platforms: Linux, Windows, Docker, AWS (EC2,S3,Route53, Cloudfront), Google Cloud, VMware, Virtualbox
- CI/CD/VC: Bitbucket & Gitlab(Pipelines & VC), GitHub, Git, Selenium, BATS, Python Unittest, Jira, Trello
- Languages/API's: Python, Pandas, Jupyter, Bash, Make, Dash, Plotly, C/C++ Matplotlib, Flask, Django, Java
- RDBMS: PostgreSQL, MySQL, Papertrail
- ORM: SQLAlchemy, Pony
- Embedded: DD-WRT, Arduino, RaspberryPi, BeagleBone, WeMos, MQTT

Professional Background

- Minimal Metrics - Software Engineer - (10/2018 - Present)
 - Software Engineer, working for a project lead CTO and a senior developer
 - 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.
 - Work 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.
 - Worked with a variety of databases and ORM backends while addressing bugs and writing new features.
 - Develop a prototype drill-down workflow interface using Python, Plotly and Dash
 - Communicate 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)
 - Reverse Engineered data samples while developing a large, 20M row database.
 - Automated orchestration of virtual machines to disassemble, analyze and record malware behaviour with Python scripting.
- YMCA - Network Administrator - (8/2016 - 2019)
 - Keep 15 desktop systems up to date and protected, configure network to meet perimeter and security requirements
 - Install and configure cloud based file sharing, communicate with upper management providing solutions to system problems.
 - Maintain three DD-WRT routers for 15 business devices and 30 to 50 guests with all logging aggregated on Papertrail.

Accomplishments

➤ 2018

- First place at UWF CodeFest with a team of four in a 48 hour coding competition. Topic: Education
- Senior Design Project: Lead a team of four to develop a cloud based web crawler utilizing natural language processing for research and information gathering with linux.
Technologies: AWS, Ubuntu, GIT, SFTP, Java, Elasticsearch, JavaFX, NLP(Parts of Speech Library)

Education

- University of West Florida 2018, B.S. Computer Science - Cybersecurity
- Northwest Florida 2013, Associates in Arts

Hobbies

- 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 PID industrial control setpoint logic to accurately set temperature.
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