Lawton Mizell Charleston, SC | https://lawtonm.github.io

NIWC, Naval Information Warfare Center TS/SCI Security Clearance

May 2018-Nov 2021

- In an R&D lab, worked on rapid prototyping, each year contributing to new projects. In FY21 I served as a principal investigator on a project proposal contributing to the project objective, transition targets, technical approach, architecture diagrams, project justification, execution plan, and cost plan. Aligning the proposal with Naval benefit and focus areas.
- Created a centos guide for team members to enable CAC usage and network compliance.
- Designed and implemented a containerized data science lab using docker and docker-compose for teaching upcoming marine analysts under MOS 2659.
- Built and maintained multiple ETL pipelines in Clojure/Java for our data analytics service that used Natural Language Processing libraries to extract information from unstructured text-based data sources.
- Implemented A/B testing for machine learning models on our generalized recommender system. Built methods to compute the AUC score, f1 score, precision, and recall for information retrieval metrics.
- Ran IA scans using static code analysis tools to identify and fix vulnerabilities in project applications.
- Designed and implemented Java APIs to serve data from a client's datastores to our recommender system.
- Designed and implemented Java APIs for our data analytics service resulting in maximum throughput for a client and a reduction of a VM on their virtualized system.
- Iteratively improved build and deployment pipelines within Jenkins CI/CD.
- Addressed regular production bugs and improvements in project applications utilizing Jenkins CI/CD to deliver results.
- Designed applications to be performant within a disconnected, intermittent, limited bandwidth environment.
- Contributed to the team software development guide for Clojure and Java.
- Using Agile Methodologies designed, developed, tested, and evaluated application code.
- Taught a class for a highschool Cyber Security Camp hosted by NIWC on installing and securing linux.

♦ Euterpe Solutions LLC Freelance Work

July 2018 – Present

- Created a WordPress website for a client showcasing artwork for sale with a WooCommerce plugin.
- Created a WordPress website for a client's historical restoration, architecture, and construction company.
- Created an improved backend dashboard/administrative system for a homeschool accountability association using PHP, MySQL, HTML, JS, and CSS deployed on AWS.

Center for Digital Humanities, University of South Carolina Intern

September 2016 – April 2018

• Designed, developed, and updated websites for the Center for Digital Humanities archiving historical literature for the Victorian Lives and Letters Consortium using the Django framework and the MEAN stack.

🗤 Naval Information Warfare Center Security Engineer, Data Engineer, Software Engineer Intern

May 2015 – 2017

EDUCATION & CERTIFICATES

W UNIVERSITY OF SOUTH CAROLINA, SCHOOL OF ENGINEERING AND COMPUTING

May 2014 - 2018

Bachelor of Science in Computer Science

Machine Learning by Stanford University offered through Coursera

July 2021

Openshift Beginner by KodeKloud Training offered through Udemy

July 2021

PROJECTS

Quantify - A simplified Mint clone using GoLang, ReactJs, Firestore, and GCP. Sign-in using GCP identity platform, sandbox financial data using Plaid API. Code hosted on bitbucket with a Jenkins CI/CD pipeline on GCP.

clj-gdrive-downloader - (open source) Minimal clojure utility to download shared compressed files from Google Drive.

clj-lexrank - (open source) Clojure LexRank implementation for extractive document summarization.

SKILLS

PROGRAMMING LANGUAGES – Clojure, Java, Python, Golang, ReactJS, JS, HTML, CSS, PHP, Angular **TOOLS & DATABASES** – JetBrains IDE (PyCharm, Intellij), VsCode, Git, Atlassian Suite, Jenkins, Nexus Repository, VirtualBox, VMWare, MySQL, Mongo

OPERATING SYSTEMS – CentOS, Ubuntu, Arch, Gentoo, Windows

CLOUD COMPUTING & CONTAINERIZATION - Amazon Web Services, Google Cloud Platform, Docker, docker-compose