

## Lawton Mizell

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## EXPERIENCE

**NIWC, Naval Information Warfare Center** Charleston SC, *Software Engineer, TS/SCI Security Clearance* May 2018 – Present

- Built 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 external SQL and Mongo 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.
- Designed and implemented a containerized data science lab using docker and docker-compose for teaching upcoming marine analysts under MOS 2659.

**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** Columbia, SC *Software Development Intern* September 2016 – April 2018

- Designed, developed, and updated websites for the Center for Digital Humanities using Django and the MEAN stack.

**Naval Information Warfare Center** Charleston, SC *Security Engineering Intern, Software Engineering Intern, Data Engineer Intern* May 2015 – August 2017

## EDUCATION

**UNIVERSITY OF SOUTH CAROLINA, SCHOOL OF ENGINEERING AND COMPUTING** Columbia, SC *Bachelor of Science in Computer Science* May 2018

## CERTIFICATES

**Machine Learning** by Stanford University and offered through Coursera

**Openshift Beginner** by KodeKloud Training and offered through Udemy

## 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, C/C++

**SOFTWARE** – JetBrains IDE ( PyCharm, IntelliJ ), VsCode, Git, Atlassian Suite, Jenkins, Nexus Repository, VirtualBox, VMWare

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

**DATABASES** – MySQL, Mongo

**CLOUD COMPUTING** – Amazon Web Services, Google Cloud Platform

**CONTAINERIZATION TOOLS** – Docker, docker-compose