Lawton Mizell GPA 3.5

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EXPERIENCE

CENTER OF DIGITAL HUMANITIES, UNIVERSITY OF SOUTH CAROLINA Columbia, SC
Software Development Intern September 2016 – April 2018

- Created a new website from scratch for the Center of Digital Humanities using the MEAN stack (MongoDb, Express, Angular4, NodeJs). Maintained an old website for the Center of Digital Humanities using the Django web framework.
- Wrote a script to reprocess all 8000+ digitized historical letters and fix spacing issues that occurred during the transfer from xml to plain-text.
- Created an image viewer which allowed users to browser historical images pulled from a database.
- Created a fuzzy search feature for the website which allowed the user to conduct partial word matching or whole word matching on keywords.

SPAWAR, SPACE AND NAVAL WARFARE SYSTEMS COMMAND Charleston, SC
Data Engineer Intern, Secret Security Clearance May 2017 – August 2017

- In an R&D lab, provided design and programming support for a data analytics service called MetaGNOME.
- Using Clojure and OpenCV wrote an experimental face detection feature for image analysis in which a user could upload a photo and MetaGNOME would return meta-data about the image, whether faces were detected, number of faces detected, and it would capture the detected face and store it in a separate image.
- Wrote functions in Clojure to search through an extracted text block and return matches for phone numbers, emails addresses, zip codes, web addresses and document classification.
- In Reactjs, created a form for the application in which users can provide feedback that on submission would send a message to our team HipChat showing us the information submitted.
- Conducted Unit test and benchmarking test.

SPAWAR, SPACE AND NAVAL WARFARE SYSTEMS COMMAND Charleston, SC
Software Engineering Intern, Secret Security Clearance May 2016 – August 2016

- In an Agile Development process provided design and programming support for a web based GIS.
- Created a search feature for the application which allowed the user to search by text and/or file type.
- Created a map configuration within the application settings which allowed the user to change map services (e.g. google maps or OpenLayers).
- Applied security enhancements to harden the application from potential adversaries.

SPAWAR, SPACE AND NAVAL WARFARE SYSTEMS COMMAND Charleston , SC
Security Engineering Intern May 2015 – August 2015

- Compiled an accessible and available library of secure programming standards and software quality standards.
- Conducted state of the art assessment techniques for C/C++ code using static analysis tools.
- Conducted and completed multiple software assessments and logged vulnerability finders for software defined radio code.

EDUCATION

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

PROJECTS

AdviseMe (Senior Design Project, Date to be Completed: May 2018) - A system that will assist college students through the majority of advising requirements while in pursuit of a degree. Build with MongoDb, ExpressJS, Angular4 and Nodejs.

- Contributed a Rough Design and Detailed Design Sketch for web application.
- Contributed to architecture document and added it to the github wiki page.
- Wrote backend api and routes for CRUD operations on 'classes' and advisor 'appointments'.
- Wrote frontend http client request to access the backend api for appointments.
- Wrote frontend pages for 'making an appointment' and 'viewing an appointment'.

SKILLS

PROGRAMMING LANGUAGES – Python, Clojure, C++, Java , ReactJS, Nodejs, Angular 4, Typescript, Javascript, HTML, CSS
SOFTWARE – JetBrains IDE (PyCharm, Intellij), Eclipse, STS, Git, Bitbucket, Jira, Trello, VirtualBox, Vmware vSphere, VM workstation
OPERATING SYSTEMS – Windows, Linux:Ubuntu/Mint, CentOS, Arch, Gentoo, Kali
DATABASES – MySQL, Mongo