Current Address:
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Andrew G. Marsh

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Relevant Profiles:
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OBJECTIVE

An entry level position that will allow me to exercise my programming skills (especially in Java and Python) working in a tight-knit team in the field of Computer Science.

EDUCATION

North Carolina State University – *Raleigh, NC* May 2020
B.S. in Computer Science
Cumulative GPA: 3.00

- University Scholars Program Member

Relevant Coursework:
Software Engineering • Data Structures for Computer Scientists • Programming Concepts – Java
Senior Design • Computer Security • Network Security • Computer Networks
C and Software Tools • Database Management Systems

RELEVANT WORK EXPERIENCE

MANN + HUMMEL – *Raleigh, NC*
Jr. Software Engineer Jan 2021 – Present

- Developed new microservices in Python as AWS Serverless functions
- Architected and Deployed AWS Cloud Infrastructure
- Created product prototype web pages in React and hosted on AWS, connecting to IoT devices data pipeline using REST API calls
- Converted existing serverless code to CloudFormation Infrastructure-as-Code deployments
- Collaborated with team in an agile environment, with Confluence and Jira to track tasks & documentation
- Managed code reviews among peers, and used feature branches and pull requests in bitbucket

Prime Mortgage Lending – *Apex, NC*
Part Time IT Support Analyst Intern June 2018 – Nov. 2019

- Automated administrative tasks by creating PowerShell and BASH scripts
- Provided remote and in-person guidance to employees in need of technical support
- Implemented user account Two-Factor Authentication across the company
- Set up hardware solutions as needed for company operation

SKILLS

Programming: Java, Python, JavaScript (AngularJS, React), SQL, NoSQL, Cucumber, Selenium, JUnit, Git, AWS, CloudFormation, Serverless functions

TECHNICAL PROJECTS

Software Engineering Final Project

Produced a web application for tracking healthcare information using educational software that emulates hospital systems. Enhanced an existing implementation using Java (Spring library) for the back-end and a MySQL database and AngularJS for the front-end. Thoroughly tested all code for coverage and acceptance with JUnit for unit testing the back end, as well as Selenium and Cucumber to automate black-box front-end tests. Managed dependencies through Maven to automate the build and testing process.

Open Air Quality Personal Project

A React web app that displays Air Quality for a selected city in the US. The app pulls from the public air quality API using a backend written in Python Flask and displays in a web page using React. The user can display and add additional measurements for a city and these measurements are saved and displayed locally using a REST API running on the Flask backend.

Home Server

Provisioned docker containers on a home Debian server such as: git, SSH server, calibre, and a Plex clone. Server was deployed to verify code portability across platforms for personal projects and to gain experience with Linux administration.