Alex Zhang

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Summary

A junior studying Computer Science at Virginia Tech with interests in exploring software development and cybersecurity. Significant experience using object-oriented programming languages like Java and Python. Enthusiastic about applying my skills to real world applications.

Skills

Languages: Java, Python, C, MatLab
FrameWorks/Tools: Git, Linux, SQL, IntelliJ, VSCode, Gitlab, Github, Docker, Bitbucket, Jira, Bamboo

Education

Virginia Polytechnic Institute and State University - Virginia *Graduation: Fall 2023*

- Junior Studying Computer Science
- GPA: 3.1/4.0

Experience

DevOps Intern - (May 2022 - August 2022)
VIAVI Network Solutions

- Wrote scripts to move hundreds of company Gitlab repositories to Bitbucket using Bash script
- Participated in team scrums and sprint reviews as part of the Agile methodology
- Successfully moved CI/CD pipeline builds from Gitlab to Bamboo
- Coordinated migration efforts with respective team leads to ensure a smooth transition
- Installed processors, hard drives, and SSDs on company servers at data centers

Projects

Geographic Information Systems Parser (Java)

- Engineered a parser that stored thousands of geographical features and data
- Parser was able to output location name based on coordinates using a quadtree
- Allowed users to search for location based on feature types quickly using a hash map
- Output user requested information using java formatted text document

FPGA Health Checker (Python/SQL)

- Developed a python script that would monitor and check the health of FPGA servers
- Utilized SQL to retrieve FPGA information values for health checking
- Checked health of FPGA by ensuring the server could be pinged and had viable SSH credentials
- Used Python and SQL to update proper health values of FPGA based on previous tests

COVID-19 Tracker (Java/Git)

- Took in data from a CSV file and graphed the relationship between states, races, and COVID-19 deaths ratio
- Developed a GUI, so the user can clearly see the different states, races, and death ratios of said races
- Used Git to successfully coordinate version control between two other teammates
- Implemented Insertion sort, for the sorting of the highest death rates to lowest, and sorted lexicographically for the race names