Rishil Mysore

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Career Objective

Seeking a full-time software engineering position where I can combine new tools and techniques with my previous experiences for the long-term.

Education

Virginia Tech Blacksburg, VA

Bachelor of Science in Computer Science, Minor in Mathematics. GPA: 3.57 / 4.00 *Expected Graduation: May 2023*

Skills

Languages: Python, C, Java, JavaScript (React), HTML, x86
Operating Systems: Windows, Linux (Ubuntu, CentOS)
Tools: Docker, Eclipse, Ghidra, Git, IntelliJ, MongoDB, VS Code

Projects

Undergraduate Research Assistant | *Python, MySQL* January 2023 – Present

- Improve the genomeRxiv project, a web-accessible database of public genome sequences
- Identify and debug problems in the genomeRxiv Python back-end computation
- Implement a new MySQL database for genome sequencing

Genre Classifier | *Python (TensorFlow and Scikit-learn)* October 2022 – December 2022

- Developed two music genre classifiers which classify a 30-second audio file into 1 of 10 popular music genres
- Implemented a KNN model trained on a 60-feature CSV file and a CNN model trained on audio files
- Improved the accuracy of the CNN model with techniques such as batch normalization and dropout layers
- Tested the stronger model (CNN) on 100 royalty free songs (10 for each genre)

Work Experience

Software Intern July 2021 – August 2021

BONbLOC *Remote Work*

- Worked at a Blockchain startup and developed an employee database tool for 50+ people
- Created the tool with Java Spring Boot and Angular
- Deployed on Docker with Kubernetes clusters

NASA Intern July 2018 – August 2018

NASA Langley Research Center *Hampton, VA*

- Selected to participate in the highly competitive VASTS Mission to Mars program
- Participated in a fully funded seven-day residential academy
- Collaborated with a team on a theoretical project to Mars with a primary focus on Martian surface base and radiation mitigation
- Received the NASA Senator Award for outstanding STEM achievement

Activities

Cyber Security August 2015 – May 2022

- Participated in CTFs and Cyber Patriot competitions
- Attended various presentations about operating systems, reverse engineering, and security

Virginia Tech Galileo Program August 2019 – May 2020

- Gained professional development skills through seminars, workshops, and the mentorship program