Colbe Roberson

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Skills

Languages & Frameworks: Python, Java, C, C++, JavaScript, HTML, CSS, React, Flask
Software & Tools: Linux, Git (GitHub, BitBucket), Docker, Jenkins, Jira, Confluence
Databases: MySQL, Oracle, MongoDB

Education

B.S. Computer Science / New Jersey Institute of Technology Sept 2019 – May 2023

- Fall 2019, Spring 2021 Deans List

Relevant Coursework: Advanced Data Structures and Algorithm Design, Intensive Programming in Linux

Experience

Sparta Systems, Hamilton Township, NJ / Software Engineer Intern May 2022 – Aug 2022

- Improved QE testing efficiency by updating internal software with Vue, Maven, Spring Boot, and Java.
- Optimized ease of access to internal software using Jenkins, Docker, and Artifactory.
- Developed and implemented pages and reusable components for a new project using React, JavaScript, HTML, and SCSS as a member of a 4-person front-end development team.
- Collaborated with cross-functional team members using Jira, Confluence, and BitBucket to deliver software on time while working within the Scrum methodology.

Projects

Maze Creator and Solver / GitHub Repo / maze-pedia.com

- Designed and developed a web application that generates and solves customizable mazes utilizing various algorithms.
- Utilized Python, Flask, React, HTML, CSS, Bootstrap, and JavaScript to implement features and logic.
- Deployed a Docker container to AWS Elastic Beanstalk and implemented a CI/CD pipeline using GitHub Actions.

N-Puzzle Solver / GitHub Repo

- Built a web application that uses various heuristics and search algorithms such as A*, IDA*, and Best-first search to generate solutions for a sliding puzzle with any number of tiles.
- Implemented features and functionality using Java, Maven, Spark, React, JavaScript, CSS, and HTML.

Book Worms / CS490 / GitHub Repo / bookworms490.herokuapp.com

- Led a team of 3 in developing a web app that enables users to discuss books and connect with others.
- Created a RESTful API using Python and Flask, integrated with a MySQL database, then used React, CSS, and HTML to create a user-friendly UI.
- Deployed a Docker container to Heroku and implemented a CI/CD pipeline using GitHub Actions.

Activities & Organizations

Association for Computing Machinery / Club Member / NJIT Sept 2021 – Present

- Participated in weekly meetings with other members to discuss computing events around the school.
- Collaborated weekly with 3 other members to recreate the ACM website using Vue.

Programming Team / Club Member / NJIT Sept 2021 – Present

- Acquired knowledge of data structures and algorithms prevalently found in competitive programming.
- Formed groups of 2 to solve LeetCode and HackerRank problems on previously discussed topics.