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Profile

A motivated and passionate software engineer who is able to learn quickly, enjoys mastering new competencies, and possesses excellent time management skills. Focused on team experience as well as solving issues using prior technical knowledge, incorporating soft skills while doing so. Seeking a full time position starting Summer 2021.

Relevant Experience

Education

B.S. Software Engineering, Rochester Institute of Technology, May 2021 (3.2/4.0)

- Minor: Business Administration

Work Experience

- Applications Developer - Mastodon Design LLC - Rochester, NY 9/18-present
 - Implemented an automated unit/IO test application that assisted test operators with validating functionality of various company products. Tools: Python, PyQt, PostgreSQL
 - Created a test framework that made it possible to run products through a thermal profile to determine operability and evaluate functionality at extreme temperatures. Tools: Python, PyQt, PostgreSQL
 - Developed an application that assisted supply chain coworkers with tracking product serial numbers and generating reports for shipment orders. Tools: Python, PyQt, PostgreSQL
 - Created command line and GUI-based tools for programming the FPGA or PLD of an embedded device, as well as manipulating its register bit values. Tools: Python, PyQt
 - Maintained operations dashboard website that provided company-wide access to test data. Tools: Javascript, Java, HTML, CSS, Docker, PostgreSQL, React
 - Assisted with maintaining a proprietary software application, generally fixing UI bugs. Tools: C++, Qt
- Office Clerk - Thermo Fisher Scientific - Penfield, NY 6/18 -8/18
- Various - Ritz Sports Zone - Rochester, NY 2/17-5/18
 - Prepared food, washed dishes, cooked.
- Volunteer - Milly's Pantry - Penn Yan, NY 6/15
 - Organized a project that remodeled the entire basement for my Eagle Scout project, plus additional work.
- Volunteer - Geneva Public Library - Geneva, NY 10/17
 - Helped with various programs and events, organized and ran program teaching kids about programming.

Projects

Urban Data Science Project

- Constructed a mobile app that assists citizens of a particular community in providing feedback and viewing data pertaining to their area of residence. Developed with a team of 5, using Slack to coordinate with each other. Created as part of Senior Project. Resulted in a properly functioning prototype.
- Tools: Javascript, Typescript, React, NodeJS, HTML, VSCode, Git, Slack, Jira

Fuzzer Project

- Constructed an automated exploratory tool to discover potential security weaknesses for any given URL. User actions are simulated to find commonly exploited web vulnerabilities. Worked on the project individually for a software engineering course. Resulted in successfully providing an accurate assessment of what vulnerabilities are present and where they are.
- Tools: Python, VSCode, YAML, Git

WebCheckers Project

- Designed a game of checkers in which players can play against each other online. Developed with a team of 4 for an introductory software engineering class. Engineered using an agile process and utilized Scrum practices. UML and design documentation were made, and 23 test cases were written. Resulted as a perfectly functional game.
- Tools: Java, IntelliJ, Git, Spark, Freemarker, Slack, Trello

Pathbuilder Project

- Developed a game with strategy-based AI using calculations such as how many moves it would take to win. Constructed with another person for a computer science course. A pre-existing template was used for aesthetic purposes while we worked on game logic. Our strategy beat every AI mode that was given as well as most of the class' implementations.
- Tools: Java, IntelliJ, Git

Proficiencies

Programming Languages

- C++, Python, Java, C, Ruby, SQL, Javascript, Visual Basic, PHP, HTML5, Assembly, Typescript, YAML, MATLAB

Development Tools

- IDLE, IntelliJ, PyCharm, RubyMine, Git, Vim, PuTTY, NumPy, Spark, Freemarker, Qt, VSCode, Anaconda, Postman, React, NodeJS, AWS, PostgreSQL, SQLite, DynamoDB, API Gateway, Docker