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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.

## Relevant Experience

### Education

**B.S. Software Engineering**, Rochester Institute of Technology, May 2021

- Minor: Business Administration

## Work Experience

- Software Engineer - 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 by automating instruments. This includes a test framework for running products through a thermal profile to determine operability 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, Django
  - 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
  - Scanned proprietary documents, organized financial records.

## 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

### Portfolio Website

- Designed a website that showcases additional information about me and my programming career. Tools: Javascript, VSCode, React, Git. URL: jakobrossi.com

### 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

## Proficiencies

### Programming Languages

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

### Development Tools

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