Jakob Rossi   Software Engineer

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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.

Experience

- **Software Engineer at Mastodon Design LLC**, Rochester, NY   8/19 - present
  - Implemented an automated unit/IO test application in Python that assists 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, Git
  - Maintained an operations dashboard website that provides company-wide access to test data. Tools: Javascript, Typescript, HTML, CSS, React, Bootstrap, Django, jQuery, Webpack, PostgreSQL, Docker, Git
  - Developed an application that allows supply chain coworkers to track product serial numbers and generate reports for shipment orders. Tools: Python, PyQt, PostgreSQL, Git
  - 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, Xilinx
- **Software Engineer Intern at Mastodon Design LLC**, Rochester, NY   9/18 - 8/19
  - Fixed and tracked UI bugs on a proprietary software application. Tools: C++, HTML, CSS, Qt

Education

- **B.S. Software Engineering**, Rochester Institute of Technology, May 2021 (3.2/4.0)
  - Minor: Business Administration

Projects

Genre Detect

- Created a deep learning music genre classification tool using a Long Short Term Memory Recurrent Neural Network. Feature abstraction is performed on audio files given by the user and the model predicts the genre it may belong to. Users are also able to preprocess raw data and build/train their own model. Tools: Python, Tensorflow, Keras, Scikit-Learn, NumPy, Matplotlib, Librosa, Git

Urban Data Science

- Constructed a mobile app that assists citizens of a particular community in providing feedback and viewing data pertaining to their area of residence. The app was also aimed to assist the Rochester Citizen Advisory Board in gauging public interest on city initiatives. Developed a significant portion of the API in Javascript and used Slack to coordinate with a team of 5. Deployed a working prototype and gathered feedback from testers on initial rollout. Tools: Javascript, Typescript, HTML, React, NodeJS, Git, Jira, Slack

Portfolio Website

- Designed a website that showcases additional information about me and my programming career. Tools: Javascript, HTML5, CSS, React, NodeJS, Git. URL: jakobrossi.com

Proficiencies

Programming Languages

- Python, Javascript, Typescript, HTML5, CSS, C++, C, Java, SQL, MATLAB, YAML

Development Tools and Frameworks

- Linux, VSCode, Vim, Anaconda, React, NodeJS, Tensorflow, Keras, PyQt, NumPy, Pandas, Matplotlib, Bootstrap, Django, jQuery, Ajax, Webpack, AWS, PostgreSQL, Docker, Git, Gitlab, Jira, Confluence