

Samuel D. Tregea

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Objective

To obtain a cooperative education position in the design, development, and testing of computing systems and software products.
Available Summer 2021.

Education

Rochester Institute of Technology, Rochester, NY
Bachelor of Science, Major in Computer Science, Minor in Mathematics

Expected Graduation: December 2021
Overall GPA: 3.09/4.0

Monroe Community College, Rochester, NY
Associate of Science, Computer Science

Graduated: May 2018
Overall GPA: 3.583/4.0

Relevant Courses: Analysis of Algorithms, Concepts of Parallel and Distributed Systems, Digital Computer Organization, Discrete Math for Computing, Intro to Computer Science Theory, Intro to Software Engineering, Mechanics of Programming, Principles of Database Management, Programming Embedded Microcontrollers.

Experience

BCC Software, Rochester NY
Software Engineering Intern

May – January 2021

- Worked on the redesign of an industry standard website for mail tracking as well as help convert the website from VB.NET to ASP.NET MVC.
- While working on the redesign, made sure to not affect the performance of the back-end database with billions of records.
- Built a PDF generation tool for use within a mail tracking tool. Users are able to select and customize a Tableau Report and are then able to export the file as a PDF to download.
- Implemented new 'Visualizations' section for our mail tracking product. This section allows for users to view mailing information within newly developed Tableau data visualizations.

Precision Optical Transceivers, Rochester NY
Software Engineering Intern

September - December 2019

- Designed and implemented a new datasheet generation tool for use within the company using the Django web framework.
- Worked with the implementation of automatically detecting a device interface over SSH or TCP sockets.
- Implemented an SQLite3 database and interface for a Python application.
- Designed an administrative web UI and server for SQLite3 database interaction. Allowing for users to view the data, sort it by column, and adding new data via HTTP POST.

Skills

- **Programming Languages:** Python, C#, Java, C, JavaScript, HTML, CSS, SQL, C++, and Node.js along with minor experience in Assembly, PHP, and Swift.
- **Operating Systems:** macOS, Windows, Unix/Linux.
- **Frameworks:** Django, ASP.NET MVC.
- Agile and Scrum experienced.
- Experienced with CI/CD
- Able to work well in a team or as well individually.
- Highly detailed, self-motivated, with a passion for technology.

Projects

- **Secure Messaging:** Written in C#, this project uses public key encryption to send secure messages to other users over a distributed system. Using RSA keys (public and private), the client side of this program will encrypt plain text using a public key of a user you want to message and will decrypt the messages using a private key and then output the originally sent plaintext.
- **Website:** Using the Python web framework Django, I created and designed my own personal website to further enhance my experience with Django as well as challenge my full-stack experience as a developer.

Awards

- Eagle Scout
- Dean's List (3 semesters)