

Sam Alcosser

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Experience

IBM

Poughkeepsie, NY (WFH)

Software Client Facing Technical Support Intern

May 2021 – December 2021

- Assisting the level 2 supervisor technical support team by writing REXX execs to increase the efficiency of the team
- Helping develop a full stack react application as part of an agile development team that will be used internally by the support staff

Collective Strategies Through Marist College's CCAC Group

Poughkeepsie, NY

Research Software Developer

September 2019 – May 2021

- Built a middleware which connects multiple accounting services called [MIP Connector](#) to be sold as a product for the accounting company Collective Strategies
- Designed and implemented a full stack solution to allow tenant administrators to configure their data mapping profile to best fit their business needs
- Structured and built a logging system to allow the tenants and technicians to have a clearer picture of the state of processes through the UI and emails by utilizing Play Framework's mail client
- Collaborated with a team to create both internal and external facing web API endpoints along with the controllers and business logic behind them

Projects & Non-Work Experience

SamOS

September 2021 - Present

Browser Based Operating System

- Writing an operating system in Typescript to explore the inner workings of an operating system and the hardware on which it runs
- Learning about concepts such as scheduling, paging, interrupts, and context switches by implementing them in my own operating system

[GrepY](#)

May 2021

Regex to NFA and DFA converter written in Java

- Created a tool that can turn a regular expression into an NFA (Nondeterministic Finite Automata) and a DFA (Deterministic Finite Automata), and test strings using the generated DFA derived from the regular expression
- Utilized Maven as a build tool and to test for accuracy

[Workout Tracker](#)

April 2019 - May 2019

Workout Tracker UI Application

- Organized and created a fully featured workout tracker application
- Created UI for application using Java's Swing UI to allow the user to easily input data
- Implemented the Hibernate ORM to easily manage data between the MySQL database and the processes of the application

Education

Marist College

Overall GPA: 3.67

- 5-Year BS/MS Software Development Program
 - **BS in Computer Science** expected May 2022
 - **MS in Software Development** expected May 2023
 - Minors in **Information Technology**, **Information Systems**, and **Cybersecurity**

Skills

- Java, JavaScript, TypeScript, Python, C++, SQL, and REXX
- HTML/CSS, Bootstrap, and React.js
- Play MVC Framework (Java)
- Hibernate ORM

Awards & Accomplishments

- Marist Dean's List
- [Winner of IBM/ Marist Datathon](#)
- Captain of competitive rock climbing team