**Daniel Graham**

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**EDUCATION**

**Siena College**, Loudonville, NY

Bachelor of Science in Computer ScienceExpected May 2023

GPA: 3.98

**EXPERIENCE**

**Student Researcher**,CURCA Summer Scholars, Siena CollegeJune 2020-August 2020

* Worked 40 hours per week researching the measles virus and disease modeling techniques
* Formulated generalized versions of the traditional SIRV compartmental model to account for the change in the average duration of infection for measles
* Performed numerous simulations using Python to model the spread of measles according to the generalized equations developed
* Analyzed and compared the simulations of the traditional model with the generalized models using metrics such as DALYs to determine the estimated burden of disease for measles

**Teaching Assistant**,Mohonasen High School, Schenectady, NYSeptember 2018-June 2019

* Worked 15 hours per week developing professional skills both inside and outside of the classroom through the Cooperative Education and Internship Program (CEIP)
* Assisted students in a computer science classroom with their learning of Python and various computer science fundamentals
* Collaborated with other CEIP interns and administration at the school to build critical skills such as technical communication, time management, teamwork, integrity and leadership
* Participated in several career development activities such as workforce training, formal presentations, and a mock interview

**PROJECTS**

**WEL Social Media Startup Web Application**

* Developed a web application that uses Angular, TypeScript, Spring Boot, PostgreSQL
* Worked in an Agile scrum environment as a developer with a client under an NDA
* Enhanced user experience through modernized Figma designs
* Implemented features such as authentication, settings, and various modals

**Chat Web Application**

* Developed a chat web application using ReactJS, ExpressJS, NodeJS, and MongoDB
* Utilized MongoDB and Bcrypt to authenticate users and store user accounts/messages
* Incorporated sockets to allow for real-time message sending and receiving
* Authorized users with JWTs and cookies to allow for access to sensitive backend endpoints

**SKILLS**

Proficient: Java, React, Angular, TypeScript, NodeJS HTML/CSS/JS, Git/Version Control, SQL

Familiar: ExpressJS, MongoDB, Oracle, C++, Python, Spring Boot, Django