Brian Matzelle

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EDUCATION

Binghamton University, SUNY | Thomas J. Watson College of Engineering and Applied Science
Bachelor of Science in Computer Science *Expected May 2024*
Major GPA: 3.33/4.00 | **Cumulative GPA:** 3.38/4.00
Relevant Coursework: Intro to Machine Learning, Design & Analysis of Algorithms, Advanced Computer Architecture, Automata Theory, Operating Systems, Advanced Computer Architecture.

TECHNICAL SKILLS

Languages: C++, Javascript, React, Next JS, HTML, CSS, Rust, Python, C, Java
Frameworks & Software: Next.js, React.js, React Native, React Navigation, Git, Windows, MacOS, Ubuntu, Raspberry Pi OS
Programs: Microsoft Teams, Microsoft Office, Microsoft Excel, Vegas Pro, FL Studio

Experience

Software Developer Intern at TJ Russo Consultants | Islandia, NY *June 2022 - August 2022*
- Collaborated with a team of 4 developers to build an NGINX based live-streaming service to improve client outreach
- Utilized React Native framework with Expo library to develop a live-streaming mobile application prototype
- Coded email templates in HTML and CSS to increase client engagement

Co-Founder and CSO of OnePolicy, LLC | Vestal, NY *November 2022 - Present*
- Building front end web applications with routing functionality from Next.js and UI design from React.js
- Managing Solutions department and facilitating communications between business and technology coworkers via weekly progress and planning meetings

PROJECT EXPERIENCE

LendaHand, HackBU 2023 Submission| Binghamton, NY *February 2023*
- Awarded Best Civic Engagement Hack Sponsored by J.P. Morgan
- Awarded Best Geo Hack Sponsored by CAE
- Developed a community outreach mobile application using React Native
- Led 2 classmates in 24 hour hackathon and competed against 120+ participants

Degrees of Separation BFS Graph | Binghamton, NY *May 2022*
- Implemented Breadth first search on an adjacency list graph to determine the degrees of separation between nodes
- Coded dynamic modules in C++ to build graphs from user inputted data
- Deployed various data structures in unison to optimize performance of graph traversal

CS 110 - Programming Concepts & Applications, Audio Synthesizer | Binghamton, NY *December 2020*
- Led a team of three to design an interactive keyboard controlled audio synthesizer in Python
- Designed GUI with Tkinter library to allow for user customizable sounds
- Awarded best project by class professor

Quicksort Analysis Presentation | Binghamton, NY *December 2022*
- Teamed up with 2 classmates to implement and simulate 3 different Quicksort partitions using C++ and Rust
- Compared the performance of each partition with Python and analyzed their respective run-time complexities
- Presented findings to a class of 20+ students and answered questions about best implementation practices

EXTRACURRICULAR ACTIVITIES

Debate Club | Franklin Square, NY *September 2019 - June 2020*
- Founded a debate club that met monthly to encourage the healthy discussion of modern political and social controversies
- Formulated topics and guided open discussion for over 20 students in each meeting