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*

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, Python, Next JS, HTML, CSS, Rust, C, Java

Frameworks & Software: Next.js, React.js, React Native, PostgreSQL, Expo, React Navigation, Git, Windows, MacOS, Linux

Programs: Jira, Trello, Microsoft Teams, Microsoft Office, Microsoft Excel, Vegas Pro, FL Studio

EXPERIENCE

Co-Founder and Chief Technology Officer of OnePolicy, LLC | Vestal, NY   *November 2022 - Present*
- Developing a full-stack mobile application with PostgreSQL and React Native, implementing API calls and web-app integrations
- Managing Solutions department, coordinating communication between business and technology teams through weekly progress and planning meetings
- Cultivated strong project management skills by implementing agile methodologies, effectively prioritizing tasks, and closely monitoring project timelines to ensure timely delivery of high-quality mobile application updates

Software Engineer 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

PROJECT EXPERIENCE

LendaHand, HackBU 2023 Submission | Binghamton, NY   *February 2023*
- Won Best Civic Engagement Hack, sponsored by J.P. Morgan, for exceptional community impact
- Awarded Best Geo Hack, sponsored by CAE, for innovative geospatial application
- Developed a cross-platform community outreach mobile app using React Native and Expo
- Led a team of two classmates in a 24-hour hackathon, outperforming 120+ participants
- Integrated Google Maps API to accurately display user event locations, enhancing user experience and event planning capabilities

Chat.tv, a Live Streaming AI Chat Service | Binghamton, NY   *April 2023*
- Created Chat.tv, a simulated live streaming platform enabling small streamers to interact with intelligent ChatGPT bots
- Integrated SpeechRecognition to transcribe user speech into text for seamless communication with bots
- Leveraged OpenAI's API to generate dynamic and engaging bot responses based on user input
- Implemented multi-threading to maintain smooth GUI performance while processing bot responses in real-time
- Scaled platform to support 10,000+ bots simultaneously in "livestreaming chat" environment

Degrees of Separation BFS Graph | Binghamton, NY   *May 2022*
- Employed Breadth-First Search algorithm on adjacency list graphs to calculate degrees of separation between nodes
- Programmed dynamic C++ modules to construct graphs based on user-provided data

CS 110 - Programming Concepts & Applications, Audio Synthesizer | Binghamton, NY   *December 2020*
- Directed a group of three in creating an interactive, keyboard-controlled audio synthesizer using Python
- Designed a user-friendly GUI with the Tkinter library, enabling customization of sounds
- Awarded best project recognition by class professor for design and functionality