Brandon Bane

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EDUCATION

Bachelor of Science in Computer Science | Major GPA: 3.15/4.0   May 2024
Binghamton University | Thomas J. Watson School of Engineering & Applied Science
Relevant Coursework: Operating Systems, Design & Analysis of Algorithms, Data Structures and Algorithms, Probability & Statistical Methods, Intro to Data Mining, Programming with Objects & Data Structures

TECHNICAL SKILLS

Languages: Python, C++, C, Java, JavaScript, R
Systems & Tools: Linux, Windows, Git, Visual Studio, Eclipse, AWS**,** Pandas, NumPy, SQL, React.js, Tableau
Certifications: Google Advanced Data Analytics, NYS Seal of Biliteracy in Spanish, AWS Data Engineer (In Progress)

PROFESSIONAL EXPERIENCE

Software Engineering Fellowship | Headstarter   July 2024 – Present
- Building 5+ AI apps and API using NextJS, OpenAI, Pinecome, and StripeAI during seven-week fellowship.
- Working with a team of software engineers to deploy a project to 1000 users using MVC design patterns.
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

Technical Operations Coordinator | Advance Neuropathy Institute   May 2024 - Present
- Streamlined the medical billing process using AdvancedMD's EHR and PM software, reducing claim denials by 25% and improving overall revenue cycle performance.
- Led the redesign of the company website to improve user experience and increase online engagement, resulting in a 25% increase in web traffic.
- Collaborated with the marketing team to develop and execute advertising campaigns across various platforms, contributing to a 33% increase in lead generation and search engine optimization.

PROJECT EXPERIENCE

Maestro – Basketball Play Simulator | React.js Project   May 2024 - Present
- Designed and developed an interactive basketball play simulator, enabling users to drag player icons and draw dynamic paths to visualize strategies, with further plans to create a database of created plays for players and coaches around the world.

Financial Transaction Clustering Analysis | Data Analysis Project   May 2024
- Analyzed and clustered over 10,000 financial transactions for a simulated global e-commerce platform to identify unique spending patterns, achieving a 30% reduction in computational overhead by optimizing the K-means clustering algorithm.
- Implemented statistical methods to determine the optimal cluster count, reducing processing time by 20% and enhancing cluster accuracy, using Python's sklearn and pandas libraries.

Digit Recognition App | Machine Learning Project   Apr 2024
- Developed and implemented a cutting-edge machine learning app for digit recognition, to aid the deaf/hard of hearing community by increasing recognition accuracy by 15% and reducing manual entry errors by 50%.
- Engineered a seamless application interface to ensure user satisfaction, resulting in reducing processing time by 30% and improving user experience by integrating a MobileNetV3 CNN with Java and TensorFlow.

LEADERSHIP EXPERIENCE

Binghamton Poker Club, Secretary | Binghamton, NY   Aug 2023 - May 2024
- Conducted comprehensive training sessions for 50+ new members on poker rules and strategies, improving their game understanding and increasing participation rate by 200% within 3 months.
- Maintained detailed records of club finances, membership, and tournament outcomes to ensure transparency

Environmental Change Co-Founder, Treasurer, Senior Advisor | Binghamton, NY   Aug 2021 - May 2024
- Co-founded the initiative in 2021, now boasting over 700 active members at Binghamton University.
- Managed budget from the university, added grants, and fundraising sales to ensure financial sustainability.