Brian Bates

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Education

New Jersey Institute of Technology Newark, NJ | Sept 2020 - May 2024
Bachelor of Science in Computer Science
GPA: 3.3 | Dean's List: Fall 2020, Spring 2021, Fall 2022, Fall 2023

Projects

Online Multiplayer Chess Game- React, Typescript, Javascript, Python, and SQL
- Developed a real-time online multiplayer chess game with a leaderboard feature.
- Integrated the Stockfish AI with adjustable ELO for single-player mode.
- Managed an SQL database to store player profiles and leaderboard rankings.

E-commerce Web Scraper - PHP, SQL, Python, Bash
- Built a web scraper to extract data from two retail stores and display similar items on an e-commerce site.
- Automated the extraction of 25 similar items from each store with their name, description, and price using Curl, TagSoup, and a Parser.

Online Bookstore - PHP, SQL, JavaScript, HTML, CSS
- Designed a full-stack web application to view the bookstore, request to add books, and join the mailing list.
- Managed an SQL database to store the current books and mailing list recipients.

Taxi Driver - Python
- Created a machine learning model to solve a modified OpenAI's taxi driver problem using Reinforcement Learning.
- Implemented a Q-learning algorithm for efficient pathfinding in a 25X25 maze with randomized locations.

Skills

- Programming: Python, Javascript, TypeScript, React, C, C++, C#, Java, PHP, Node.js, Angular, SQL, Pytorch, Sklearn, Bash, HTML, CSS
- Other: Full Stack Development, Version Control/Git, Database Management, Data Analysis, Machine Learning, AI, Cybersecurity, WordPress, Agile Methodologies
- Certifications: IBM Cybersecurity Analyst Professional, AWS Academy Graduate

Experience

Visual Intelligence, LLC | Software Engineer Intern | January 2024 - Present
- Refactored website in WordPress to enhance user experience.
- Conducted research on medical AI to establish standardizations and regulations.

Shoprite of Rochelle Park | Produce Clerk | May 2021 - Present
- Collaborated with a team to ensure the smooth functioning of the department.
- Assisted in managing and tracking inventory stock while providing customer service.

Fair Lawn School District | Summer Student Tech Help | July 2018 - September 2019
- Maintained, updated, and upgraded hardware and software for system maintenance.
- Communicated efficiently with the team to ensure all systems were addressed.