Brian Bates

https://brianjbates.xyz/ | GitHub | LinkedIn
brianbates5354@gmail.com | 201-923-3412 | Fair Lawn, NJ 07410

Education

New Jersey Institute of Technology | Newark, NJ | Sept 2020 - May 2024
Bachelor of Science in Computer Science | GPA: 3.3 | Dean's List Recipient for 5 Semesters

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.

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 key product details (name, description, price) for 25 similar items from each store, leveraging Curl, TagSoup, and a custom 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.
- Implemented and managed an SQL database to efficiently store and retrieve data on available books and mailing list subscribers.

Taxi Driver - Python
- Developed a machine learning model using Python to tackle a variant of the classic OpenAI taxi driver problem.
- Implemented a Q-learning algorithm, demonstrating efficient pathfinding capabilities in a complex 25X25 maze with dynamic locations.

Experience

Visual Intelligence, LLC | Software Engineer Intern | January 2024 - May 2024
- Refactored website in WordPress to enhance user experience.
- Conducted research on medical AI to establish standardizations and regulations.
- Efficiently utilized WooCommerce to reduce the costs of sales by approximately 15%.

Shoprite of Rochelle Park | Produce Clerk | May 2021 - May 2024
- Collaborated with a team to ensure the smooth functioning of the department.
- Developed organizational skills and attention to detail through inventory management.
- Enhanced interpersonal skills and customer service expertise by interacting with diverse customers and addressing their needs promptly.

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.
- Developed problem-solving skills and technical expertise by troubleshooting and resolving hardware and software issues.

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