## Brian Bates

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## Education

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

## Projects

**Chess** - React, Typescript, Javascript, Python, and SQL
- Implementation of a real-time online multiplayer chess game with a leaderboard
- Players can verse a human or the stockfish AI integration with an adjustable elo
- Managed SQL database to store player profiles and leaderboard rankings

**Web Scraping Site** - PHP, SQL, Python, and Bash
- Scraped two retail stores for data extraction to create a set list of similar items to be redisplayed on an e-commerce site
- Automation is used to Curl, TagSoup, Parse, and 25 similar items from each store with their name, description, and price

**Bookstore** - PHP, SQL, Javascript, HTML and CSS
- Designed with full-stack functionality to view the bookstore, request to add books, and join the mailing list with user interface design.
- Stored all of the current books and the mailing list recipients inside an SQL database design.

**Taxi Driver** - Python
- Built a machine learning model to solve a modified OpenAIs taxi driver problem with Reinforcement Learning
- Utilized a Q-learning algorithm on a 25X25 maze for pathfinding that starts at a random or custom location to find the most efficient path for pick up and drop off

## Skills

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

## Experience

**Visual Intelligence, LLC Software Engineer Intern** January 2024 - Present
- Refactored website in WordPress to improve user experience
- Researched medical AI to create standardizations and regulations

**Shoprite of Rochelle Park Produce Clerk** May 2021 - Present
- Collaborate as a team to ensure the smooth functioning of the department
- Assist 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
- Efficient team communication to ensure all the systems were addressed