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## Brian Bates

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### Brian Bates

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## Education

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**New Jersey Institute of Technology, Newark, NJ/ B.S. in Computer Science**

Graduation: May 2024 GPA: 3.3 Dean's List: Fall 2020, Spring 2021, Fall 2022, Fall 2023

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## About me

- 7+ years of experience in programming, cleaning, and optimization code
- Ambitious about learning and passionate about technology
- Motivated and passionate about making a positive impact on the lives of others

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## Projects

- **Chess** - A deployment of chess created in a 4-person team that is added onto the covey.town code base. Covey Town is a basic online game where people can walk around and join different conversation areas. This deployment uses Chess.js and react-chessboard to ensure the functionality of the chess logic. There is an added timer, a leaderboard connected to a database, and a forfeit button added to the game. This game allows you to either play against another player in the game or against the stockfish AI with an Elo setting that the users can adjust.
- **Taxi Driver** - A Q-learning program based on OpenAI Gym's Taxi Driver problem. This uses a 25X25 maze which starts at a random location and the algorithm finds the most efficient path to pick up a passenger and bring them to their location.
- **Web Scraping** - This took two similar items, like Pepsi and Coke, from two different websites, Albertsons and Rite Aid, and resold them. This automatically pulled 25 items from each store, including prices, names, and descriptions, and displayed them on the website for a markup. Whenever an item is clicked on, the item is compared to the other store's similar item and highlights the better deal before the user confirms the purchase.
- **Bookstore** - A bookstore website that has 5 main pages. These are the home page, create a new book to add to the store, about the bookstore, contact the store, and join the mailing list. All the books and mailing lists are stored inside a SQL database.

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## Skills

- Python, C, C++, C#, Java, Javascript, TypeScript, React, PHP, SQL, Node.js, Angular, Pytorch, Sklearn, Bash, HTML, CSS
- Upgrading and updating hardware and software
- Effective problem-solving and adaptability to changing situations

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## Experience

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**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
- Ensure customer satisfaction

**Fair Lawn School District Summer Student Tech Help** July 2018 - September 2019

- Maintained, updated, and upgraded computers for the school system
- Efficiently communicated as a team to ensure all the systems were addressed
- Be on call to assist returning teachers set up their devices