

# Jesse Peterson

Garfield, NJ

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 GitHub | <https://github.com/Jpeterson2012>

## Education

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Georgia Institute of Technology, Atlanta, GA

2024 - Present

M.S. Computer Science

William Paterson University, Wayne, NJ

2020 - 2023

B.A. Mathematics, Minor in Computer Science

## Project(s)

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### TheSound Music App

[Demo here](#)

(MySQL, Express.js, React, Node.js, Redux, TypeScript, HTML, CSS)

- Allows user to sign into their personal Spotify account and sync personal library.
- Provides responsive and interactive UI elements for a premium feel.
- Supplies a discover page with new releases and search functionality for endless hours of music.
- Enables audio streaming via utilizing the Spotify Web Playback SDK.

### Simple Market Trading Simulator

[Github](#)

(Python, MySQL, Pandas, NumPy, Beautiful Soup)

- Generated application that scrapes the current S&P500 symbols from Wikipedia using the Beautiful Soup library.
- Stores these symbols inside a MySQL table along with a table of historical data for each ticker, provided by the Yahoo Finance API.
- Uses a machine learning model consisting of a bag learner and random trees to produce buy/sell signals.
- Conducts trades according to model output and tracks earnings.

### Book Ecommerce Site

[Demo here](#)

(Java, TypeScript, Spring Boot, Angular, MySQL, HTML, CSS, Bootstrap)

- Built a bookshop ecommerce website where you can browse, filter, and purchase over 200,000 different books.
- Uses the Angular MUI library along with custom CSS animations to allow a seamless, interactive user experience.
- Provides authenticated login capability with different functionality depending on role type.
- Connects to two external APIs to provide a description of each book and produce links for acquiring more information.

## Work Experience

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**Hardware Configuration Specialist** | **Fello** | **Butler, NJ**

March 2024 – Present

- Develop custom software and google apps script code to help automate daily workflows.
- Configure hardware based on customer specifications.
- Perform QC check on configuration changes; Identify discrepancies between the request and the implementation and resolve or initiate their resolution.

## Skills

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- Languages: Java, C++, Python, R, TypeScript, JavaScript, CSS, HTML
- Frameworks/Libraries: React, Redux, Angular, NumPy, Pandas, Spring Boot, Node.js, Express.js, Spring MVC, Playwright
- Other Tools: Git, MySQL, MongoDB, Apps Script, Postman, WSL, Docker, Visual Studio, Visual Studio Code, IntelliJ Idea