

# Jesse Peterson

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 [Portfolio](#) |  [LinkedIn](#) |  [GitHub](#)

## 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)

- Allow users 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.
- Store retrieved ticker symbols inside a MySQL table and generated a unique table for each symbol comprised of historical stock data obtained from 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

- Design an ETL pipeline that makes use of Google Cloud, Google Sheets API, Playwright, Mailosaur, and Node.js to automate retrieval of relevant order information from the company's internal item management system.
- Develop software applications built with JavaScript, CSS, HTML that assist in automating daily workflows.
- Create and maintain bash scripts that increase the productivity of the configuration department.
- Implement custom google spreadsheets that utilize Google Apps script to create a plethora of tools used by the entire team.
- Install custom chrome extensions on company computers that provide increased functionality on sites used daily.

## 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