

# Jesse Peterson

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[!\[\]\(919a2cb85b99741a73c0c31a427236a8\_img.jpg\) Portfolio](#) | [!\[\]\(c9cd5a1c35167a83f09a35036fe5dcbd\_img.jpg\) LinkedIn](#) | [!\[\]\(ae1936640fabdea8c18f922ca69733fe\_img.jpg\) 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, CSS, HTML)

- Seamlessly interacts with the original Spotify platform, granting users access to their personal library.
- Provides full suite of playback options and access to real-time music data i.e. current playing track, track metadata, etc.
- Supplies a discover page and search functionality, giving access to an extensive catalog of songs, albums, artists, and playlists.
- Constructed custom genre playlists consisting of 30 different genres and 30,000 total songs.
- Offers ability to create custom playlists and add/remove tracks, albums, and playlists to/from library.

### Simple Market Trading Simulator

[Demo Here](#)

(Python, Flask, MySQL, Pandas, NumPy, Beautiful Soup, JavaScript, CSS, HTML)

- Drafted a script that scrapes the S&P500 symbols from Wikipedia and stores them inside a database table.
- Generated a unique table for each symbol comprised of historical stock data obtained from the Yahoo Finance API.
- Implemented a random forest machine learning model from scratch to train on and test stock data.
- Performs a time series analysis on the chosen financial indicators to generate potential buy/sell signals.
- Conducts trades according to model and analysis output while tracking earnings.

### Book Ecommerce Site

[Demo Here](#)

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

- Built a bookshop ecommerce website where you can browse, filter, and purchase over 270,000 different books.
- Provides authenticated login capability along with custom functionality depending on user's role.
- Bestow the ability to mark books as favorites when logged in and view them on account page.
- Connects to two external APIs in order to provide a description of each book and external links with 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, MailSlurp, 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, Flask, Spring Boot, Node.js, Express.js, Playwright
- Other Tools: Git, MySQL, Apps Script, Postman, WSL, Docker, Visual Studio, Visual Studio Code, IntelliJ Idea