

Jesse Peterson

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

Work Experience

Software Engineer | **Fello** | **Butler, NJ**

May 2024 – Present

- Build high-impact, scalable solutions utilizing Vue.js, Tailwind, PHP, Firestore, and Laravel to elevate the company's current technology infrastructure.
- Deliver integrations with third-party platforms such as HubSpot, QuickBooks, UPS WorldShip, and FedEx Ship Manager.
- Migrate functionality from previous codebase managed by contracted engineering partners into new system.
- Create and maintain bash scripts that increase the productivity of various departments.

Projects

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.
- 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 to provide a description of each book and external links with more information.

Skills

Languages: Java, C++, Python, R, TypeScript, JavaScript, CSS, HTML

Frameworks/Libraries: React, Redux, Angular, Vue, NumPy, Pandas, Flask, Spring Boot, Node.js, Express.js, Playwright, Tailwind

Other Tools: Git, MySQL, Apps Script, Postman, WSL, Docker, Visual Studio, Visual Studio Code, IntelliJ Idea

Education

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