

# John Hirsch V

US Citizen | St. Louis, MO | [jhirschthe5@gmail.com](mailto:jhirschthe5@gmail.com) | (757)-344-7496 | [jhirschv](#) | [GitHub](#) | [John Hirsch V](#) | [LinkedIn](#)

## PORTFOLIO

### PROFESSIONAL SUMMARY

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Software developer skilled in Python, Java, and JavaScript. Experience in full-stack web development using Spring Boot, Django, and React. Strong communication and goal setting skills honed from several years working as a personal trainer. Pursuing developer roles in a technical environment.

### EXPERIENCE

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#### BestTech (Java/React Full Stack Web App) [BestTech](#) | [GitHub](#)

Jul 2024 – Oct 2024

Team Member

- Developed a comprehensive eCommerce application with a fully functioning admin dashboard
- Applied **Agile methodologies** throughout the **Software Development Lifecycle**, utilizing **Git and GitHub**
- Created a product recommendation **machine learning algorithm** using **Python** and **Scikit-learn**
- Integrated a Python **Flask** application within a **microservices architecture** to enhance system scalability
- Utilized Shadcn/ui and **Tailwind CSS** to develop a modern user interface

#### Train.io (Python/React Full-Stack Web App) [Train.io](#) | [GitHub](#)

Jan 2024 – Jun 2024

Creator

- Implemented an **artificial intelligence** powered workout creator through **OpenAI's API**
- Developed a comprehensive workout journal to track users' workout weights, reps, videos, and notes
- Integrated **Django REST Framework** to create **RESTful APIs** with data validation to ensure data integrity
- Designed a fully functional personal training system, allowing trainers to manage clients effectively
- Designed an aesthetic dashboard with **data visualization** for monitoring fitness progress and achievements

**Tech Stack:** Python (Django), React.js, PostgreSQL, Tailwind CSS, shadcn/ui

#### Discourse - Chat Application (Python/React) [Discourse](#) | [GitHub](#)

Jan 2024 – May 2024

- Created a real-time chat application, allowing users to sign up and chat with friends
- Used **Django Channels and WebSockets** to manage real-time messaging
- Designed an interactive **React frontend** that is fully **mobile responsive**
- Integrated **JWT authentication** for secure **API requests** and user logins

**Tech Stack:** Python (Django), React.js, WebSockets, Django Channels, Libsodium.js

#### Cloud Code — Online Code Execution Project

Jan 2024 - Mar 2024

- Created a web-based coding environment that allows users to write code that is executed remotely
- Utilized the **Docker SDK** to spin up **Docker containers** to execute user submitted code
- Developed a frontend with **React and Material UI**, using the Monaco text editor react package
- Tech Stack: Python, Django, Docker, React.js, Tailwind CSS, Material UI

#### Social Network - CS50's Web Programming with Python and JavaScript Project

Oct 2023 - Dec 2023

- Developed a social network platform with interactive posts and a follow/follower system
- Utilized Django's **ORM** to manage user data and interactions with efficient **database queries**
- Incorporated **asynchronous JavaScript API requests** for **single-page application** functionality

**Tech Stack:** Python (Django), JavaScript, WebSockets

### SKILLS

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Java, Python, JavaScript, SQL, Spring Boot, Django, React.js, Node.js, Git, Docker, AWS, PostgreSQL, MySQL

### EDUCATION

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#### Launch Code

Web Development - Java Bootcamp

St. Louis, Missouri

Graduated Aug 2024

#### Old Dominion University

Bachelor of Science

Norfolk, Virginia

Graduated May 2023