

Mike Hanson

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EDUCATION

Virginia Polytechnic Institute and State University

Aug. 2021 – May 2025

B.S. Computer Science | **GPA: 3.5/4.0**

Blacksburg, VA

- **Courses:** Data Structures, Computer Organization, Computer Systems, Cloud Software, Algorithms & Analysis
- **Honors:** Dean's List: Spring 2022 - Fall 2024

TECHNICAL SKILLS

Languages & Frameworks: Java, Python (Sockets, Celery, BS4), C#, C++, Node.js, React, FastAPI, Flask, Tailwind

Development & Deployment: Docker, Git, AWS, Heroku, PythonAnywhere

Database Tools: MongoDB, Redis

PROJECTS

Fantasy Football App | [Demo URL](#)

Fall 2024

- Architected and deployed a full-stack fantasy football application using the FARM stack (FastAPI, React, MongoDB), featuring real-time NFL data collection through Celery workers and live draft functionality with WebSocket integration
- Implemented a scalable backend system supporting flexible league management (2-20 players) with automated data scraping, roster management, and real-time scoring updates for multiple concurrent leagues
- Designed a responsive React frontend with Tailwind CSS, incorporating live player statistics, matchup tracking, and waiver wire management, while ensuring seamless real-time updates across all user interfaces

Bullpen Budgets | [Demo URL](#)

Spring 2024

- Developed a web-based MLB analytics platform that tracks real-time bullpen statistics and pitcher workload data across all 30 teams, featuring automated daily updates and comprehensive 3, 7 and 14-day performance metrics
- Architected a scalable data collection system using Python and BeautifulSoup4 for web scraping, deployed via AWS Lambda and S3, delivering customizable dashboards for users to track up to 10 favorite teams with detailed comparative analysis and usage patterns

SPX Radar | [Demo URL](#)

Fall 2023

- Built a Flask-based S&P 500 stock analysis platform featuring real-time market data integration through yfinance API, delivering dynamic stock grades and 5-hour trend projections updated every 15 minutes
- Implemented an intelligent scoring system (0-125 scale) that processes live market data to identify high-risk opportunities and provide actionable investment insights, while maintaining persistent data storage using pickle files for reliable trend analysis

WORK EXPERIENCE

Fulfillment Center Associate

May 2024 – Aug. 2024

Amazon

East Fishkill, NY

- Processed 5,000+ items daily while maintaining high accuracy and meeting time requirements
- Identified workflow bottlenecks and collaborated with team members to optimize distribution processes

Range Attendant

May. 2023 – August. 2023

Par Fore Golf Center

East Fishkill, NY

- Orchestrated operations and inventory management for medium-traffic golf facility
- Provided expert equipment consultation and technical recommendations to diverse clientele

Store Associate

May. 2022 – August. 2022

William's Lumber and Home Center

Hopewell Junction, NY

- Managed point-of-sale operations while executing inventory control and equipment maintenance
- Provided technical consultation on hardware specifications and complex DIY projects, delivering solutions to diverse client needs