

# 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; features automated daily updates and comprehensive performance metrics.
- Created a scalable data collection system using Python and BeautifulSoup4 for web scraping, deployed via AWS Lambda and S3; delivered customizable dashboards for users to track favorite teams with comparative analysis and usage patterns

### SPX Radar | [Demo URL](#)

Fall 2023

- Built a Flask-based S&P stock analysis platform featuring real-time market data integration through yfinance API; delivers dynamic stock grades and 5-hour trend projections updated every 15 minutes
- Implemented an intelligent scoring system that processes live market data to identify high-risk opportunities and actionable insights, while maintaining persistent data storage and 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 high-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
- Delivered solutions to diverse client needs by providing technical consultation on hardware specifications and complex DIY projects