

# Mike Hanson

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## EDUCATION

### Virginia Polytechnic Institute and State University

Aug. 2021 – May 2025

*B.S. Computer Science | GPA: 3.52/4.0*

*Blacksburg, VA*

- **Courses:** Data Structures, Computer Organization, Computer Systems, Cloud Software, Algorithms & Analysis
- **Honors:** Cum Laude, Dean's List: Spring 2022 - Spring 2025

## SKILLS

**Languages & Frameworks:** Java, Python, C, C++, Node.js, React, FastAPI, Flask, Tailwind, OpenAI API

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

**Database Tools:** MongoDB, Supabase, PostgreSQL, Redis

## WORK EXPERIENCE

### Software Engineering Intern

May 2024 – August 2024

*WildShield Robots*

*East Fishkill, NY*

- Developed and maintained a high-throughput REST API endpoints capable of processing thousands of 5000+ requests per minute for real-time communication with robotic systems
- Engineered bidirectional data flow handling telemetry data from robots and command distribution to backend services, ensuring reliable performance under heavy concurrent load

### Range Attendant

May 2023 – August 2023

*Par Fore Golf Center*

*East Fishkill, NY*

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

## PROJECTS

### AI Poker Game | <https://aicehigh.netlify.app/>

Spring 2025

- Launched a full-stack poker application leveraging FastAPI, React, and OpenAI API simulating realistic poker gameplay with AI opponents featuring distinct personalities and verbal commentary to enhance psychological reading skills
- Created No-Limit Texas Hold'em gameplay supporting up to 5 AI opponents from 10 unique personalities, with customizable opponent selection and hidden identity options for strategic variety and enhanced challenge
- Built comprehensive analytics system tracking player performance metrics and game statistics, enabling users to analyze gameplay patterns and refine strategies through detailed post-game insights

### Fantasy Football App | <https://chaosff.netlify.app/>

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 | <https://github.com/mikehansonn/BullpenBudgets>

Spring 2024

- Developed a web-based MLB analytics platform tracking 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 | <https://github.com/mikehansonn/StockAnalysisEngine>

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 processing live market data to identify high-risk opportunities and actionable insights, while maintaining persistent data storage and reliable trend analysis