

# NAMAN NAGELIA

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## Education

University of Maryland, College Park

August 2023-June 2026

Bachelor of Science in Computer Science, BS Operations Management and Business Analytics (Double Major)

**Relevant Coursework:** Object Oriented Programming, Computer Systems, Discrete Structures, Calculus, Linear Algebra, Statistics, Data Structures and Algorithms

## Experience

Spark my Sport

March 2024 – Present

Lead Software Engineer

<https://web.sparkmysport.com/>

- Spearheaded the development of the Spark My Sport website by integrating data-based charts, analytics, and AI features using **Next.JS**, **OpenAI**, and **MySQL**, resulting in a platform now utilized by over 1000 coaches, scouts, and athletes to enhance decision-making.
- Contributed to detailed technical and product **documentation**, reducing inquiries by 35%.
- Launched 60+ **RESTful API's** and **websockets** to present live stats for users.
- Developed an iOS app for live sports stats using **Xcode** and **SwiftUI**, providing real-time data feeds and user-friendly interfaces, leading to 40% sales increase

Amazon Project Kuiper

January 2024 – May 2024

Software Engineer Intern

- Designed and created satellite safety analysis platform around Amazon operators worth about \$300,000 for Amazon in collaboration with UMD's App Development Club.
- Built a responsive front-end dashboard and API pipeline using **Next.js**, **React**, **Typescript**.
- Implemented algorithms within a game theory **hyper ledger**-based framework to optimize satellite maneuvers, reducing operational costs and streamlining communication between two operators.

Johns Hopkins

August 2023 – May 2024

EBS Intern

- Led the development of advanced ERP models, increasing resource planning efficiency by 20%.
- Designed and automated data cleansing processes, reducing thousands of missed records and improving data accuracy across departments.
- Engineered functional mockups and Functional Design Reports for SAP interfaces with a **Streamlit** Python dashboard, resulting in a streamlined development process and cutting project completion time by 2 months.

Global Alliant Inc.

June 2023 – August 2023

Website Developer

- Recreated website using **MERN** stack, increasing user engagement by 10%.
- Integrated a custom ChatBot with **PyTorch**, enhancing customer query resolution and user interaction.

## Projects

Financial Market Simulation | *Python, PyTorch*

June 2024-Present

- Developed Trader Classes in **Python** that analyze over 100 different stocks data and use 3 different strategies to influence trading
- Trained a Reinforcement Learning **PyTorch** model that adjusts parameters in each strategy model as profit/loss is recorded
- Engineered advanced PyTorch **LSTM** networks to analyze historical stock data, enhancing prediction accuracy and significantly improving investment decision-making capabilities of bots based on time-series data insights.

Backboard Stats | *Python, JavaScript, Flask, Google Cloud* <https://www.backboardstats.com/>

December 2023-Present

- Founded and developed BackBoard Stats, a statistics platform to better visualize advanced player analytics in the NBA, with a user base of 500 active users hosted on **Vercel**.
- Created web-scraper APIs that fetch scores, statistics, and plays in live time, hosted on Google Cloud.
- Implemented **Python** and **R** to create graphs from **wescraper APIs** that fetch and process real-time data from NBA websites and then turn it into **D3.js interactive graphs**.
- Employed mathematical formulas and calculations to craft a player rating system with playstyle archetypes for 500+ players.

Tutors Nova | *Swift, Firebase, XCode*

October 2023-Present

- Designed TutorNova's iOS app with **SwiftUI**, leveraging **AWS Amplify** for scalability.
- Implemented key features like real-time scheduling via Google Calendar API and in-app messaging using **WebSockets** for enhanced communication, significantly improving the tutor-student matching process.

## Technical Skills

**Programming Languages:** Java, Python, SQL, HTML, CSS, Swift, JavaScript, NodeJS, C++, C, TypeScript

**Full-Stack Development:** React, NextJS, NodeJS, Flask, Django, MongoDB, Firebase, MySQL, Supabase, PostgreSQL, REST APIs

**Development Tools:** macOS, Windows, Xcode, Figma, IOS and Android frameworks

**Data Analytics/AI:** Jupyter Notebooks, TensorFlow, Matplotlib, Pandas, Seaborn, StreamLit, Tableau, PyTorch, Scikit-learn, Financial Forecasting