

NAMAN NAGELIA

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Education

University of Maryland, College Park

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/>

- Led 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.
- Developed an iOS app for live sports stats using Xcode and Swift, providing real-time data feeds and user-friendly interfaces, leading to enhanced user engagement and valuable real-time stats for sports events.

Amazon Project Kuiper

January 2024 – May 2024

Software Engineer Intern

- Selected among the top 15 of 300+ applicants from UMD's App Dev club to build a satellite safety analysis platform around Amazon operators worth about \$300,000.
- Built a responsive front-end dashboard and API pipeline using Next.js, React, Typescript.
- Created algorithms within a game theory ledger-based framework to optimize satellite maneuvers, effectively reducing operational costs.

Johns Hopkins

August 2023 – May 2024

EBS Intern

- Led the development of advanced ERP models, increasing resource planning efficiency by 20%.
- Designed and maintained intricate planning spreadsheets, reducing thousands of missed records and improving data accuracy across departments.
- Engineered functional mockups and Functional Design Reports for SAP interfaces with a Streamlit dashboard.

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.

Johns Hopkins APL ASPIRE

June 2022 – August 2022

Intern

- Used Python and the Pandas library to create Linear Regression and ARIMA models to assist with NBA props betting.
- Developed a Python-based data dashboard leveraging advanced statistical techniques for predictive analytics, resulting in gains of \$700+ on successful bets.

Projects

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 powerful APIs that fetch and process real-time data from NBA websites and then turn it into D3.js interactive graphs.
- Employed advanced mathematical formulas and calculations to craft a player rating system with custom playstyle archetypes.

Tutors Nova | Swift, Firebase, XCode

October 2023-Present

- Developed TutorNova's iOS app using SwiftUI and Xcode, hosting on AWS Amplify for scalable cloud infrastructure, resulting in a robust and user-friendly platform for tutoring services..
- Implemented key features like real-time scheduling via Google Calendar API and in-app messaging using WebSocket for enhanced communication, significantly improving the tutor-student matching process..
- Engineered a secure authentication system with Firebase Authentication and crafted both backend and frontend using Firebase Realtime Database and Cloud Firestore, ensuring seamless data synchronization and user experience..

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

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

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