NAMAN NAGELIA

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Education

University of Maryland, College Park **June 2026**
Bachelor of Science in Computer Science, BS Finance (Double Major) *GPA: 3.8*

Experience

Amazon **May 2025 – August 2025**
SDE Intern
- Migrated critical features and modernized a frontend from a **Ruby**-based portal to a modern **React + Java** microservice architecture, improving performance, security and maintainability.
- Wrote and executed **unit**, **integration**, and regression tests in **Java** and **Jest** to ensure backward compatibility and minimize production issues post-launch.
- Ensured secure handling of consumer data by implementing **encryption**, **IAM** role-based access controls, and vulnerability patching during migration.

Mindgrasp **March 2025 – Present**
Software Developer
- Leveraged the emerging **Model Context Protocol (MCP)** to build a server that connected an agent-based LLM with Canvas LMS, enabling real-time data retrieval and automating context-aware tasks for users.
- Redesigned **Retrieval-Augmented Generation (RAG)** and **agent-based LLM** pipelines, resulting in a 1.7% increase in free-to-paid trial conversion rates.

Spark my Sport **March 2024 – August 2024**
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 with **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 inquires by 35%.
- Launched 60+ **RESTful API's** and **websockets** to present live stats for users.
- Developed an iOS app for live sports stats, leveraging **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.
- Engineered 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.

Projects

Proxi Link | *FastAPI, React Native, Expo, PyTorch* — App Store Link **June 2024 – August 2024**
- Developed an AI-powered recommendation system using **PyTorch**, integrating both **Content-Based** and **Collaborative Filtering** models to personalize travel destination suggestions.
- Built and deployed a full-stack iOS app using **React Native**, **Expo**, and **FastAPI**, reaching 200+ downloads for personalized vacation discovery.

Fin Sims | *Python, PyTorch* **June 2024 – December 2024**
- Developed trader classes in **Python** analyzing 100+ stock datasets with three unique strategies.
- Trained a reinforcement learning **PyTorch** model that adjusts strategy parameters based on PnL.
- Engineering **LSTM** networks for time-series prediction to enhance bot trading decisions.

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, FastAPI, AWS, Pinecone, DynamoDB
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 Market Forecasting, Machine Learning, RAG