Manas Nagelia

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EDUCATION

Eastern Technical High School   Essex, MD
Magnet: Information Technology Networking   *Class of 2027*

EXPERIENCE

John Hopkins Pathology   Dec. 2024 – Feb. 2025
Web Developer
- Built a quiz web app for a research project for John Hopkins Pathology using Next.js, Tailwind, and ShadCN
- Developed seamless and secure magic link based authentication using Clerk, which allows users to resume their quiz from where they left off from
- Designed and optimized a PostgreSQL database, enabling efficient data storage, autosave functionality, and efficient analysis for research insights

PSC Hand Safety LLP   May 2023 – June 2023
Web Developer
- Designed and built a business website using Wix, incorporating responsive design & SEO best practices to rank #1 on Google
- Launched and optimized a high-impact website that attracted 1,000+ monthly visitors and drove significant revenue growth through a strategically integrated Request a Quote form

Garden Playhouse Daycare   Oct. 2022 – Jan. 2023
Web Developer
- Designed, programmed, and launched a daycare website using Next.js receiving over 600 visitors per month and ranking #1 on Google
- Built an admin center for the website with data stored in PostgreSQL using Supabase as the BaaS allowing the admin to update the site's content dynamically

PROJECTS

The Genuine Journal | *Next.js, PostgreSQL, Supabase, AI*   July 2024 – Present
- Developing an independent journalism platform for writers and readers aimed to promote free speech and reduce polarization with an AI political bias checker.
- Designed and built website in Next.js, employed magic link authentication via Supabase, architected database design, and utilized artificial intelligence to tag articles with a political bias.

Financial Market Simulation | *Python, Pandas, PyTorch, Git*   June 2024 – Present
- Developing a sophisticated financial market simulation for research purposes, where AI agents trade stocks and compete against each other, enabling the analysis of trading patterns and strategies in Python.
- Implementing reinforcement learning algorithms for AI traders using PyTorch, allowing them to continuously refine and enhance their trading strategies based on performance feedback and market conditions.

Backboard Stats | *Python, Flask, Next.js, PostgreSQL, Tailwind, Git*   Dec 2023 – March 2024
- Co-founded & developed a full-stack NBA web application using Next.js with Flask serving a REST API with React as the frontend
- Implemented intermittent caching and revalidation strategies to optimize performance, achieving a 100% increase in efficiency compared to initial metrics
- Developed a mobile app using React Native and used Framer Motion for sleek animations
- Deployed serverless functions for the REST API & a cron job onto Google Cloud

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C#, Java, SQL, HTML/CSS
Frameworks/Libraries: React, Node.js, Next.js, Nest.js, Flask, WordPress, Material-UI, FastAPI, pandas, NumPy, Matplotlib, scikit-learn, PyTorch
Tools: Git, Docker, Google Cloud Platform, Vercel, VS Code, Visual Studio, PyCharm, IntelliJ, Tableau, Redis, PostgreSQL, MySQL, MongoDB, JSON, Microsoft & Google Products