

Dikshith Vishnuvardhan

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Relevant Skills

Programming Languages & Frameworks: Flask, Python, ReactJS, NextJS, NodeJS, ExpressJS, TypeScript, JavaScript (JS), Shell Scripting, HTML5, CSS

Tools & Platforms: Git, GitHub, Bitbucket, Docker, AWS, GCP, Azure, WordPress, Shopify

Databases: MySQL, Postgres, MongoDB

Work Experience

Insider Edge Analytics; Atlanta, GA (Remote)

September 2024 – Present

Software Development Engineer

- Designed and built the entire data infrastructure from the ground up, including Entity Relationship Diagrams (ERD), database schema, and deployment of MySQL databases.
- Developed and deployed data mining scripts in Python to extract and process historical data spanning 10+ years from various web pages and APIs, ensuring data accuracy and scalability.
- Built full-stack applications by developing REST APIs using Flask for backend services and a responsive frontend interface using Next.js and Tailwind CSS, enhancing user experience.
- Implemented CI/CD pipelines with shell scripts for seamless integration and deployment of both frontend and backend systems using Git and Docker, improving release efficiency and minimizing downtime.
- Deployed applications on Google Cloud Platform (GCP) Compute Engine with domain configuration and SSL installation, ensuring security and high availability.
- Conducted unit testing and ensured code efficiency, contributing to a product that attracted 450 paying users and 250 daily active users (DAUs) within 4 weeks post-launch.

Clark University; Worcester, MA

Web Designer and Data Analyst for Career Connections Center

February 2024 – Present

- Built an automated application using NodeJS, ReactJS, and Canva Developer APIs to generate posters and flyers, improving event operation efficiency by 75%.
- Administered the WordPress Event Calendar on the university's multi-site CMS, optimising event scheduling and management.
- Transformed unstructured survey data into actionable insights using MySQL and MS-Excel, producing reports that significantly improved the university's understanding of employment trends.

Clark University; Worcester, MA

Research Assistant for the Department of Mathematics and Computer Science

December 2023 – Present

- Designed a personalized video recommendation system using NextJS, Tailwind CSS, and NodeJS to research GPT's effectiveness for content recommendations.
- Integrated TikTok APIs and OpenAI models to deliver tailored video suggestions.
- Deployed the application using Docker on Azure, ensuring scalability and secure operation.
- Implemented client-side tracking solutions to monitor video engagement metrics, enhancing data-driven research insights.

OpeninApp; Karnataka, India

December 2022 – July 2023

Software Development Engineer

- Led the frontend development for a high-traffic application serving over 250,000 daily active users, achieving a Lighthouse performance score of 95 by optimising components built with ReactJS, NextJS, and Tailwind CSS.
- Directed a team of 3-4 developers to deliver the company's first revenue-generating feature, boosting daily active users by 25% and driving immediate revenue post-launch.
- Collaborated closely with backend developers to integrate business logic, resulting in a 50% decrease in API response times and improved user experience.

- Implemented WebSockets for real-time communication and established comprehensive testing protocols, enhancing overall product reliability and user retention.

Education

Master of Science in Information Technology (STEM)

May 2025

Clark University, Worcester, MA | Overall: 3.9 GPA

Bachelor of Technology in Computer Science & Technology

May 2022

Dayananda Sagar University, Bangalore, Karnataka, India | Overall: 3.0 GPA

Related Projects

Personalized Video Recommendation System

May 2024

(Research Paper submitted for CHI '25, Association of Computing Machinery)

- Developed a scalable video recommendation system integrating NextJS, Tailwind CSS, and NodeJS, deployed securely using Azure and Docker.
- Implemented client-side tracking to analyze user engagement metrics, providing critical insights for GPT-based recommendation research.

OpeninApp Chrome Extension

March 2023

Developed a Chrome extension using NextJS, NodeJS, Express, and MySQL that serves as both a bookmark and a smart link generator. Enabled users to track performance metrics of their saved links.

(<https://oia.link/chrome-extension>)