

## Dikshith Vishnuvardhan

Worcester, MA | (508)-615-3786 | [dikshithvishnu2@gmail.com](mailto:dikshithvishnu2@gmail.com) | [linkedin.com/in/dikshith-vishnuvardhan/](https://www.linkedin.com/in/dikshith-vishnuvardhan/)

### Relevant Skills

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

**Tools & Platforms:** Git, GitHub Actions, Bitbucket Pipelines, Docker, AWS, GCP, Azure, WordPress, Shopify, New Relic

**Databases:** MySQL, PostgreSQL, 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.
- Built full-stack applications by developing REST APIs using Flask and Node.js for backend services and a responsive frontend interface using Next.js and Tailwind CSS, enhancing user experience and SEO.
- Utilized Stripe payment gateway for checkouts and wrote scripts in Node.js to listen to Stripe webhook events to update and store user metadata.
- Automated CI/CD workflows with shell scripts and GitHub Actions which streamlined deployment of both frontend and backend systems, improving release efficiency and minimizing downtime.
- Conducted unit testing, troubleshooting and code reviews to ensure 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 Node.js, 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 Node.js to research GPT's effectiveness for content recommendations.
- Integrated TikTok APIs and OpenAI assistants 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 Node.js, 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, Node.js, 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>)