

# Dikshith Vishnuvardhan

Atlanta, GA | (508) 615-3786 | [contact@dikshith.com](mailto:contact@dikshith.com) | [linkedin.com/in/dikshith-vishnuvardhan](https://www.linkedin.com/in/dikshith-vishnuvardhan) | Open to remote

## Summary

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Backend-focused full-stack engineer with 4+ years of experience designing and scaling distributed systems, data pipelines, and API infrastructure. Proven track record building real-time event-driven architectures using Go, TypeScript, Node.js, and PostgreSQL — serving hundreds of thousands of users. Equally capable across the stack when needed, with production experience in React and Next.js. MS in Information Technology from Clark University.

## Technical Skills

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**Backend & Systems:** Node.js, Fastify, Express, Go, Python, FastAPI, Flask, WebSockets, RabbitMQ, Redis

**Databases:** PostgreSQL, MySQL, MongoDB, Redis (caching & pub/sub), NoSQL

**Cloud & Infrastructure:** AWS (Lambda, S3, RDS, EC2), GCP (Compute Engine), Azure, Docker, NGINX, PM2, Terraform

**API Design:** RESTful Services, GraphQL, OpenAPI/Swagger, LangChain, LangGraph

**Frontend:** React, Next.js, TypeScript, Tailwind CSS (supporting role)

**CI/CD & Tooling:** GitHub Actions, Docker, Shell scripting

## Work Experience

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### Trendline Labs

Atlanta, GA

*Founding Software Engineer*

September 2024 – Present

- Designed and built a high-throughput data pipeline in Go and TypeScript ingesting millions of data points from prediction and sports markets, using RabbitMQ for distributed queue management and guaranteed delivery.
- Engineered a Fastify + Node.js API-as-a-service backed by PostgreSQL and Redis, serving real-time analytics and prediction market prices — supporting 5+ minute average user session lengths.
- Integrated ESPN, Polymarket, and Kalshi WebSocket and REST endpoints to power sub-second data feeds for live sports analytics dashboards.
- Built a natural language-to-SQL search feature using LangChain, LangGraph, and Anthropic Claude, increasing user retention by 30%.
- Automated CI/CD pipelines with GitHub Actions and shell scripts, cutting release cycle time by 80%.
- Implemented pixel-perfect React + Next.js dashboards from Figma designs using Tailwind CSS and Recharts (frontend contribution in a primarily backend role).

### Clark University

Worcester, MA

*Software Engineer — Career Connections Center*

February 2024 – May 2025

- Built an automated content generation service using Node.js and Canva Developer APIs, replacing a manual workflow and improving operational throughput by 75%.
- Designed and maintained MySQL data pipelines to transform raw survey data into structured employment trend reports.
- Managed WordPress multi-site CMS and event calendar system for department-wide content delivery.

*Research Engineer — Dept. of Mathematics & Computer Science*

December 2023 – June 2025

- Developed a personalized video recommendation engine integrating TikTok APIs, with client-side engagement tracking for research data collection; associated research paper accepted to CHI '25 (ACM).
- Containerized and deployed the application using Docker on Azure, ensuring reproducible builds and scalable operation.

### OpeninApp

Karnataka, India

*Software Development Engineer*

December 2022 – July 2023

- Collaborated with backend teams to restructure API response payloads, achieving a 50% reduction in average response time for an application with 250,000+ daily active users.
- Implemented WebSocket-based real-time communication layer, improving user engagement and retention by 30%.
- Led a team of 3–4 engineers to ship the company's first revenue-generating feature, growing daily active users by 25%.
- Achieved a Lighthouse performance score of 95 through component optimization and lazy loading strategies.

## Projects

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### NL-to-SQL Sports Search Engine

September 2025

- Built a natural language query interface over a sports database using FastAPI, LangChain, and LangGraph; deployed via Docker and NGINX on GCP Compute Engine with automated CI/CD.

### The Insider Analytics API

August 2025

- Designed and shipped a production API-as-a-service for American sports analytics and real-time betting odds using Fastify, Node.js, MySQL, and Redis — with full OpenAPI documentation; deployed with PM2 and NGINX on GCP.

### Personalized Video Recommendation System

May 2024

- Built a scalable recommendation engine with Next.js, Node.js, and OpenAI Assistants; deployed on Azure with Docker. Research paper accepted to CHI '25 (ACM).

## Education

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### Clark University

Worcester, MA

M.S. in Information Technology (STEM) | GPA: 3.9

### Dayananda Sagar University

Bangalore, India

B.Tech in Computer Science & Technology