Dikshith Vishnuvardhan

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Summary

Results-driven software engineer with over 4 years of expertise in full-stack development and cloud technologies. Experienced in building scalable web applications that drive user engagement and generate revenue. Strong background in API integration, microservices architecture, and data analytics. Graduated with MS in Information Technology from Clark University while developing innovative solutions that combine technical excellence with practical business impact.

Relevant Skills

Programming Languages & Frameworks: TypeScript, JavaScript, React, NextJS, Fastify, Node.js, Express, Python, FastAPI, Flask, HTML5, CSS, Tailwind CSS
Cloud & Infrastructure: AWS (Lambda, S3, RDS, EC2), GCP, Azure, Docker, GitHub Actions, CI/CD Pipelines, Terraform
Databases: MySQL, PostgreSQL, MongoDB, Redis, NoSQL
Server Integration: RESTful Services, GraphQL, WebSockets

Work Experience

Trendline Labs; Atlanta, GA   **September 2024 – Present**
Founding Software Engineer
- Architected and developed a comprehensive data pipeline to pull in millions of data points from various prediction and sports markets using Go, TypeScript and queue management systems such as RabbitMQ.
- Integrated ESPN, Polymarket, and Kalshi's public API endpoints and websockets to create real-time sports data visualizations and analytics dashboards, resulting in an average user engagement time of 5+ minutes.
- Leveraged LangChain and Anthropic Claude Assistants to enable Natural Language Search features for our users, resulting in a 30% increase in user retention.
- Designed event-driven microservices architecture using Node.js and Google Cloud Functions to process and transform data.
- Automated and managed CI/CD pipelines with GitHub Actions and shell scripts to streamline deployment processes, reducing release time by 80%.
- Utilized Fastify, NodeJS, Postgres, and Redis to build API-as-a-service for serving analytics and real-time prices for prediction market events.

Clark University; Worcester, MA
Web Designer and Data Analyst for Career Connections Center   **February 2024 – May 2025**
- Engineered an automated content generation application using Node.js, React, and Canva Developer APIs, improving operational efficiency by 75%
- Managed WordPress multi-site CMS and Event Calendar, optimizing content delivery and event promotion
- Transformed unstructured survey data into actionable insights using MySQL and Excel, producing comprehensive reports on employment trends

Clark University; Worcester, MA
Research Assistant for the Department of Mathematics and Computer Science   **December 2023 – June 2025**
- Developed a personalized video recommendation system using NextJS, Tailwind CSS, and Node.js, integrating with TikTok APIs to deliver tailored media suggestions
- Containerized and deployed applications 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 frontend development for a high-traffic application serving 250,000+ daily active users, achieving a Lighthouse performance score of 95 through component optimization.
- Implemented WebSockets for real-time communication, enhancing user engagement and retention by 30%
- Directed a team of 3-4 developers to deliver the company's first revenue-generating feature, boosting daily active users by 25%
- Collaborated with backend teams to optimize API structure and response times, resulting in a 50% performance improvement

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

Trendline Labs   **September 2025**
- Utilized FastAPI, LangChain and LangGraph to build a natural language to SQL search feature for sports enthusiasts.
- Deployed using Docker and NGINX on GCP Compute Engine with CI/CD workflows

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The Insider Analytics API   **August 2025**
- Utilized Fastify, NodeJS, MySQL, and Redis to build API-as-a-service for serving analytics and real-time betting odds for American Sports, with OpenAPI specs.
- Deployed using PM2 and NGINX on GCP Compute Engine with CI/CD workflows

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Personalized Video Recommendation System   **May 2024**
- Developed a scalable video recommendation engine using NextJS, Node.js, and OpenAI Assistants.
- Research paper accepted by CHI '25, Association of Computing Machinery
- Deployed using Docker on Azure with comprehensive client-side analytics tracking

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