Gokul JS

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Profile

I'm a creative engineer with a startup mindset comfortable wearing a lot of hats and getting my hands dirty to turn early stage ideas into real, working products. I've helped build and launch tools at YC-backed companies, contributing across engineering, product, and design. Whether it's building scalable systems, designing better user flows, or just figuring stuff out on the fly, I care about the details and the people using what I build. I move fast, learn constantly, and believe good instincts and better feedback make the best products.

Professional Experience

Teamble | Lead Engineer   Jun 2024 – present
                                                              New York City (NYC), USA

- Architected and maintained high-performance web applications using Node.js and React.
- Developed a comprehensive frontend design system from scratch, implementing a pixel-perfect, scalable framework that significantly accelerated development cycles.
- Optimized APIs by migrating SQL queries and refactoring backend logic, resulting in markedly faster response times.
- Developed LLM-powered AI agents using LangGraph:
  - Created a conversational AI interface with role-based permissions for real-time data interaction.
  - Built a multi-agent system leveraging Retrieval-Augmented Generation (RAG) and fine-tuned models, enabling scalable performance review generation and AI-driven collaboration.
  - Built a powerful One-on-One Agent that aggregates data from performance and quarterly reviews to generate insightful feedback for managers before one-on-one meetings.

Aerotime, Y Combinator (W21) | Founding Engineer   Nov 2022 – Feb 2024
                                                              San Francisco, California

- Spearheaded the complete management and enhancement of frontend infrastructure, significantly improving web application performance.
- Contributed to the development of a JavaScript SDK, facilitating third-party integrations and expanding application functionalities.
- Engaged directly with customers through discovery calls and feedback sessions, driving user-centric product development.
- Communicated critical user feedback to company founders, influencing strategic decision-making and problem-solving.
- Deployed and managed open-source large language models like LLaMA and Stable Diffusion, enhancing the company's AI capabilities.
- Employed advanced techniques from the Hugging Face library, including DreamBooth and Textual Inversion, to optimize AI model performance.
- Implemented comprehensive analytics and telemetry systems to analyze user interactions, leading to improved UI/UX design and user flow.
- Developed a sophisticated table with virtualization, efficiently managing large datasets while maintaining performance and responsiveness.

Tifin Fintech (Previously 1stMain) (Full stack Developer)   Nov 2021 – Nov 2022 | Bangalore, India
- Built and maintained frontend features at TIFIN Wealth using React.js.
- Implemented Redux Toolkit for cleaner state management and reduced UI bugs.
- Created reusable components and integrated GraphQL data with React Query, improving development speed and maintainability.
- Developed interactive, real-time dashboards using Recharts for clear and responsive data visualization.

- Migrated legacy code from class components to modern function components with hooks, upgrading to the latest React version.
- Improved app performance by refactoring components and optimizing lifecycle behavior.
- Integrated CMS platforms like Strapi and Sanity for dynamic content management and flexible API workflows.
- Delivered responsive, user-focused web apps in collaboration with UI/UX teams using React.js, Gatsby.js, and Next.js.

Education

B.E Computer Science and Engineering   2017 – 2021 | Bangalore, India
CMR Institute Of Technology

Skills

Languages
JavaScript, TypeScript, Python, HTML5, CSS, SASS.

Backend
Node.js, Express, GraphQL, SQL, Prisma, Redis, Django, Fast API, tRPC, gRPC, ElasticSearch, Logstash, Kibana, Suricata, Zeek, Bull MQ, TypeORM, Drizzle, Clerk(Auth)

Large Language Models and AI
LangGraph, LlamaIndex, Langchain ,Retrieval-Augmented Generation (RAG), Stable Diffusion, Prompt Engineering, Prompt Evaluation, ComfyUI, AUTOMATIC1111, IP-Adapter.

Frontend
React JS, Next JS 14,SolidJS ,Redux, React Query, Tailwind CSS, Material UI, Recharts, Chart.js, Vite, Zustand, Bootstrap, Gatsby JS, shadcn/ui, GSAP, Radix, Jotai, Storybook

Databases
PostgreSQL, MySQL, MongoDB, DynamoDB,

Cloud and DevOps
AWS (S3, ECR, EC2, etc...), Docker, GitHub CI/CD, Vercel (serverless)

Projects

Notion 🔗
Discover Notion Clone, the modern and user-friendly productivity tool. Perfect for multitaskers and team leaders, it offers intuitive features and flexible templates. Enhanced by robust database tools and rich text/media integration, it ensures your projects are both efficiently managed and visually striking.

- **Tech Stack**: Next.js 14, Tailwind CSS, Clerk (Auth), Shadcn UI, Convex, Vercel, Zustand (State Management)

Custom GPT
Developed an API wrapper for OpenAI's GPT models, enhancing interaction and customization capabilities. Future updates will integrate other open-source models like Mistral and Llama3 for flexible model testing.

- **Tech Stack:** Next.js 14, OpenAI API, Tailwind CSS, Shadcn UI, Convex, Vercel

Advanced Image Generation: Fine-Tuning Stable Diffusion with DreamBooth Technique 🔗
Developed a fine-tuning project for AI image generation using Stable Diffusion, DreamBooth, and Text Inversion, enhancing accuracy and creativity in visualizing text descriptions.

- **Tech Stack**: AWS EFS, AWS SageMaker, Notebook, Hugging Face, Diffusers, AWS Lambda, Stable Diffusion .