

DHRUPAD SAH

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PROFESSIONAL SUMMARY

Results-driven Full Stack Engineer with expertise in building end-to-end scalable systems processing 2M+ API requests monthly. Skilled in crafting responsive, high-performance frontends using React.js, Next.js, and Vite, alongside architecting AI-powered backend infrastructure, payment gateways, and distributed systems using Node.js, Python, and Kafka. Demonstrated ability to reduce operational costs by 60% through automation and deliver revenue-impacting products serving 5+ enterprise clients.

EDUCATION

BTech in Computer Science and Engineering

Indian Institute of Information Technology, Sri City
CGPA: 8.2

July 2021 - July 2025

WORK EXPERIENCE

Software Development Engineer 1 - MIRA

October 2024 - Present

- Architected decentralized AI infrastructure handling 2M+ API requests monthly, incorporating multiple payment providers and approval workflows for 50+ enterprise clients, driving 40% revenue growth.
- Built autonomous AI agent for Customer Success, reducing operational costs by 60% and response time by 75% while collaborating cross-functionally with product, sales, and engineering teams to deliver end-to-end features.
- Engineered scalable microservices processing 10,000+ high-volume transactions daily using Kafka message queues, BullMQ job processing, and established third-party payment APIs ensuring 99.9% uptime.
- Developed client-facing dashboards, admin management UI, and company brand website with responsive landing pages using React.js, delivering polished interfaces across 50+ enterprise client accounts.

Backend Infrastructure Intern - MIRA

July 2024 - October 2024

- Built core infrastructure services for AI workflow platform, executing scalable backend systems handling 5,000+ concurrent requests with 30% latency reduction.
- Configured and deployed Kong API Gateway for comprehensive API management, establishing load balancing, rate limiting, authentication, and security enforcement across 20+ microservices.
- Connected backend systems with Ritual protocol for decentralized compute, ensuring seamless service interaction and enhanced system reliability with 99.5% availability.

Backend Development Intern - Petlevert

April 2023 - December 2023

- Engineered full-stack pet services platform serving 1,000+ users, building responsive landing pages and complete website frontend using Next.js while optimizing backend infrastructure with Node.js and MongoDB.
- Executed RESTful APIs and database optimization strategies that improved query performance by 40% and reduced API response time from 800ms to 300ms.

PROJECTS

Sentinel - Self-Healing Autonomous Development System

September 2024

Built AI-powered self-healing infrastructure automating 80% of software development lifecycle. Established GitHub webhook integration for automatic issue detection, LLM-based code generation creating 100+ PRs monthly, and AI reviewer agent for code quality assurance. Incorporated MCP (Model Context Protocol) for real-time production log analysis, enabling automatic bug detection and fix deployment with zero human intervention, reducing incident resolution time by 70%.

AI-Powered Meeting Summarizer Platform

July 2024

Built Briefly.ai, decentralized video conferencing platform with AI capabilities for real-time meeting transcription and summarization serving 500+ users. Developed responsive frontend using React.js with Vite, executed audio processing pipeline using WebRTC, and connected multiple LLM APIs generating contextual summaries

in text and audio formats with 95% accuracy.

Keep It Safe - Privacy-Centric Certificate Management

April 2024

Created KeepItSafe (KIS), privacy-centric dApp for issuing 1,000+ certificates as Rental NFTs and Soul Bound Tokens. Leveraged zero-knowledge proofs with Noir (Aztec) and Solidity ensuring data privacy, enabling users to manage and verify certificates confidentially with gas costs reduced by 45%.

Enterprise Expense Management System

November 2024

Constructed full-stack expense reimbursement platform incorporating Stripe and Razorpay APIs for payment processing handling volumes of monthly transactions. Established multi-level approval workflows using state machines, automated receipt parsing with 92% OCR accuracy, and real-time sync with payroll systems. Built with React.js/Vite frontend and Node.js/Fastify backend with PostgreSQL, handling 2,000+ concurrent transactions.

SKILLS

Programming	Python, JavaScript, TypeScript, Golang, Rust, C++, SQL
Frontend	React.js, Next.js, Vite, Tailwind CSS, HTML/CSS, Responsive Design, SPA/SSR
Backend & APIs	Node.js, Fastify, Express, FastAPI, REST, GraphQL, WebSockets, Microservices
Infrastructure	Docker, Kubernetes, AWS (EC2, S3, Lambda, SQS), Redis, CI/CD, Terraform
Data & Messaging	Kafka, BullMQ, PostgreSQL, MongoDB, RabbitMQ, Database Design, Migrations
AI/ML & Automation	LLM APIs, Prompt Engineering, MCP, Workflow Automation, State Machines

ACHIEVEMENTS

Winner - ETH India 2024

December 2024

Won 4 track prizes for developing a platform enabling reversal of accidental on-chain transactions, addressing a critical pain point in blockchain UX.

Winner - HackQuest Living Knowledge Hackathon

July 2024

Led development of Briefly.ai, securing first place for innovation in combining decentralized infrastructure with AI-powered meeting intelligence.

Multiple Hackathon Recognitions

2024

Consistently placed in top positions across 5+ blockchain and AI hackathons, demonstrating expertise in rapid prototyping and innovative solution design.