Ashish Sontakke
Full Stack AI Engineer

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Summary

Full Stack AI Engineer with over four years of experience designing, building, and launching scalable products across the AI, web, and blockchain ecosystems. Proven ability to take ideas from concept to production, demonstrated by founding Redon AI, a multi-model productivity platform with over 100 users. Adept at developing sophisticated backend systems, custom RAG pipelines, and AI agent orchestration using technologies like Next.js, Nest.JS, PostgreSQL, and AWS. Skilled in integrating diverse large language models from OpenAI, Claude, and Gemini to create real-time, intelligent tools and interfaces. Passionate about rapid development cycles and building impactful, developer-first products.

Skills

Generative AI & LLMs
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Retrieval-Augmented Generation (RAG), LangChain, AI Agents, Vector Search (pgvector), Tool Use, OpenAI API, Gemini API, Claude API

Cloud & DevOps
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EC2, S3, RDS, Lambda, Amplify, ECS, CI/CD, Cloudfront, Docker, Vercel, Supabase, Cloudflare, Railway

Backend Development
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Node.js, Postgres, Graphql, Rest APIs, Nestjs

Frontend Development
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Next.js, React, Astro, Chrome Extentions, HTML, CSS, Chrome Extensions

Blockchain & Defi
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Smart Contracts (Solidity), Ethers.js, Web3.js, Hardhat, ERC-4626 Vaults

Mobile Apps
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Flutter, Firebase, Push Notifications, Location Based Mobile Apps

Experience

SingularityDAO April 2022 - Present
Blockchain Backend Engineer Remote

As a core engineer, I have been central to developing, managing, and scaling the platform's DeFi products, with a primary focus on backend and smart contract architecture.

DeFi Product & Smart Contract Engineering:

- Played a key role in the end-to-end lifecycle of critical DeFi primitives, including **Token Launchpads** and multi-chain **Staking Contracts**.
- Engineered and deployed secure, yield-bearing **ERC-4626 vaults** and handled their successful integration into the broader DeFi ecosystem.
- Developed and maintained the core smart contracts that handle over

  $5M+ in assets, ensuring maximum security by achieving **100% test coverage** through rigorous testing methodologies.

Backend Architecture & Management:

- Led the development of the complete backend system using

  Node.js and PostgreSQL, creating a scalable foundation that serves over **1,000+ daily active users (DAUs)** for complex portfolio tracking.
- Architected the integration of real-time financial data from on-chain oracles and protocols like

  Uniswap and Chainlink across Ethereum, BNB, and Base chains.

Full-Stack & DevOps:

- Contributed across the stack, including frontend development, to build cohesive and user-friendly interfaces for token launches and staking platforms.
- Designed and managed the

  full CI/CD pipeline for automating the deployment and monitoring of cross-chain contracts and APIs, ensuring high uptime and reliability.

Redon AI (redon.ai) November 2023 – Present
Founder & Lead Developer

A unified AI productivity platform designed to eliminate context-switching by integrating multiple AI models and search engines into a single, seamless interface. The project consists of a popular Chrome Extension that replaces the browser's new tab page and a full-featured web application.

- **Problem & Vision:** Addressed the fragmented nature of the AI ecosystem by creating a centralized platform where users can access GPT-4, Claude, Gemini, and various search engines without switching tabs or services, thereby covering a wide spectrum of potential use cases from a single point of access.
- **Multi-Model Orchestration:** Architected a backend system that allows users to select a preferred AI model for their queries. To ensure high availability, I implemented a robust fallback logic that automatically reroutes requests to a default model if the primary choice is unavailable.
- **Efficient Query Routing:** Implemented an intuitive and efficient `@command` system that uses rule-based logic to route user queries to the appropriate service (e.g., `@g` for Google, `@yt` for YouTube), dramatically speeding up user workflows.
- **Custom Infrastructure & Scalability:** Designed and built a custom, self-hosted infrastructure on AWS for core services including user authentication, analytics, and API rate-limiting. This approach provided deep flexibility and control, enabling a more competitive and cost-effective service offering compared to relying on third-party managed services.
- **User Acquisition & Impact:** Successfully launched the platform and acquired an initial user base of over 100 individuals through product-led outreach, validating the market need for a unified AI tool.

Pragmatic Techsoft April 2021 – November 2022
Mobile App Team Lead Pune

- Led a mobile application development team, successfully delivering multiple projects within tight deadlines.
- Built a real-time location tracking system for a logistics application using geofencing, improving operational efficiency.
- Implemented complex features including real-time tracking, payment processing, and inventory management.

Featured Projects & Ventures

Bodh bodh.tech
B2B AI Productivity & Collaboration SaaS

A multi-tenant SaaS platform for businesses to securely deploy AI capabilities across their organization, featuring custom chatbots and integrated productivity tools.

- **Multi-Tenant SaaS Architecture:** Engineered the platform to provide each client organization with a completely isolated and secure instance, ensuring data privacy.
- **Custom RAG Chatbots:** Enabled businesses to build their own chatbots by uploading proprietary company data, allowing the AI to provide highly relevant answers.
- **Third-Party App Integration:** Architected a framework for connecting to external productivity applications like Slack, Jira, and GitHub, empowering the AI to act as a productivity assistant.

DefiAI defiai.gg
Autonomous LLM Trading Agent

An autonomous LLM-powered agent that performs automated, on-chain cryptocurrency trading based on comprehensive market analysis.

- **Automated Analysis Cycle:** Developed a fully automated, hourly trading cycle that collects and analyzes real-time data including wallet balances, token prices, market cap, and historical trade outcomes.
- **Secure On-Chain Execution:** Built a robust execution engine that interacts directly with smart contracts to perform trades on decentralized exchanges (DEXs), automatically accounting for transaction costs and slippage.

JantaGPT jantagpt.com
Public Information AI Assistant

An AI-powered chatbot designed to democratize access to information about Indian government schemes, making complex civic information accessible to the public.

- **End-to-End RAG Pipeline:** Built a complete Retrieval-Augmented Generation (RAG) system to provide citizens with accurate, context-aware answers sourced directly from official documents.
- **Data Ingestion & Processing:** Created a secure admin interface for uploading documents, which triggers a data processing pipeline that converts them into vector embeddings for retrieval.

Defaing (Defi AI Assistant) defa.ing

- Developed AI assistant for token performance analysis using web search and blockchain data
- Integrated LLM + tool use + charting to explain price movements and DeFi insights interactively

Education

Pune University July 2016 – April 2020
Mechanical Engineering Engineering

Additional

- Self-hosted analytics, auth, and rate-limiting infrastructure for all personal SaaS tools
- Currently learning: Agent workflows, MCP and AI automation