

AARAV SHUKLA

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Experience

- **Cunard Consulting** Remote
Software Engineer *August 2023 – Present*
 - Developed custom AI functionalities using **LangChain**, integrating **vector databases**, OpenAI Embeddings API, and large language models (**LLMs**), and built **MCP** tools tailored to organizational needs.
 - Optimized frontend built with **React** and **Next.js** by implementing dynamic routing and data filtering, improving load times and interaction speed by 40%.
 - Modified and created backend **REST APIs** using **Node.js** and **FastAPI** to improve data accuracy by 35% and reduce response time by 60%.
 - Designed distributed backend workflows using **queues**, **workers**, and **event streaming** to support high-throughput AI processing pipelines.
 - Utilized **Azure Cloud** services to deploy and scale **Node.js/FastAPI** AI endpoints, reducing infrastructure costs by 25%.
 - Led end-to-end development of an AI-powered chatbot platform using **React**, **Next.js**, and backend services.
 - Implemented **RAG** pipeline and **agentic workflow** to autonomously generate process diagrams.
 - Automated **CI/CD** pipelines using **GitHub Actions** to streamline deployment and reduce downtime.
- **SubLabs** Remote
Full Stack Developer *June 2023 – July 2023*
 - Engineered a full-stack decentralized music platform using **React Native** and **Next.js** on Lens Protocol to tokenize and publish songs as NFTs.
 - Empowered users to securely acquire and download music NFTs, revolutionizing digital music ownership.

Projects

- **ChatDocs: AI-Powered Document Chat Application (Demo) (Code)**
 - **Tech Stack:** React.js, Next.js, TypeScript, tRPC, Prisma, Tailwind CSS, LangChain, OpenAI, Pinecone, Stripe
 - Built a **responsive document chat interface** for uploading, browsing, and querying files.
 - Developed a **scalable backend API** using **tRPC** and **Prisma** for efficient queries and real-time interactions.
 - Implemented a **RAG pipeline** with **LangChain**, **OpenAI APIs**, and **Pinecone** to generate intelligent document responses.
 - Integrated **Kinde authentication** and **Stripe subscriptions** for secure access and billing workflows.
- **Buzz-Chat: Real-Time Web Chat Application (Demo) (Code)**
 - **Tech Stack:** React.js, Node.js, Express.js, MongoDB, Socket.io, Tailwind CSS
 - Built a **responsive real-time chat UI** optimized for **mobile** and **desktop** platforms.
 - Implemented **REST APIs** and **WebSocket-based real-time messaging** using **Socket.io** for one-to-one communication.
 - Designed a scalable **real-time** messaging backend supporting **500+ concurrent users** using **MongoDB indexing** and optimized **Socket.io** connection management.
- **AutoReply: The Automated Email Reply System (Demo) (Code)**
 - **Tech Stack:** React.js (Vite), Node.js, Express.js, API, JavaScript, Google APIs, MongoDB
 - Built **AutoReply**, a multi-user Gmail automation platform using **Node.js**, **React**, and **MongoDB** with Google OAuth2 sign-in and JWT-based session management.
 - Engineered a persistent **bot engine** that scans inboxes in real-time and auto-replies to unread threads, reducing first-touch response time by **95%**.

Skills

- **Languages:** JavaScript, TypeScript, Python, Java, HTML, CSS
- **Frameworks & Libraries:** React.js, Next.js, Express.js, Node.js, FastAPI, LangChain, Tailwind CSS, MUI
- **Databases:** MongoDB, MySQL, PostgreSQL, Vector Databases, Dynamo DB
- **DevOps & Cloud:** Docker, Kubernetes, CI/CD, Github Actions, AWS(S3, EC2, SQS, ECR, ECS), Microsoft Azure
- **Tools:** Git/Github, Postman, VS Code, Cursor, Prisma, Kafka, RabbitMQ, Redis, Agile/Scrum
- **System & AI Concepts:** API, Linux, Generative AI, RAGs, MCP, AI Agents, LLMs, Networking, Microservices

Achievements

- Contributed to open-source organizations such as CNCF Glossary, Public Lab and Meshery.
- Open-Source Contributor at Hacktoberfest 2022, GSSOC 2023 and Social Summer of Code 2023.
- Winner of open-source Hackathon "Hacksquad" among 700+ teams
- Solved 400+ problems on platforms like Leetcode and GeeksforGeeks.
- Student Expert at Postman.

Education

- **Pranveer Singh Institute of Technology** Kanpur, India
Bachelors of Technology, Computer Science Engineering; CGPA: 7.2 *2021 – 2025*