

# Viraj Kawa

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🌐 [Viraj Kawa](#)

🔗 [Kviraj722](#) [Portfolio](#) [Leetcode](#)

## Education

**Gandhinagar Institute of Technology**  
*Bachelor of Engineering in Computer Engineering*

Aug 2020 - June 2024  
Ahmedabad, Gujarat

## Experience

### Tuvoc technologies

June 2023 – Present

*Software Developer Engineer.*

*Ahmedabad, Gujarat*

- **Led** a cross-functional team of **4 engineers** in delivering a feature-rich product, ensuring on-time delivery and high-quality outcomes.
- Engineered a scalable **Microservices-based** backend architecture using **AWS** services like **EC2, ALB, and VPC** to ensure high availability, internal security, and load balancing. Resulting in a 80% increase in platform reliability.
- **Constructed** a complete CI/CD pipeline from scratch using cloud-native solutions, **reducing** build and deployment time by **50%**, accelerating time-to-market.
- Integrated two critical services — a **Blockchain** and an **AI-based service** — within a secured **VPC (Virtual Private Cloud)** setup, ensuring that only **the Node.js** backend could access them. This architecture **prevented** external **internet access** to sensitive services, **enhancing security** and controlling internal-only communication.
- **Implemented Redis** caching to reduce database load and achieve API response times under **150ms** during **peak user** activity.
- Leveraged **GPT-4** and GitHub Copilot for accelerating **backend module development**, code reviews, and test case generation, **improving development** velocity and code quality.
- Successfully **delivered 3** major products, receiving direct appreciation and positive feedback from international clients for exceeding expectations.

## Projects

### FileSharing | Next.js, Firebase

- Designed secure FileSharing web application using **Next.js**, resulting in a **20%** increase in file sharing efficiency for **100+ active users**.
- Implemented **password protection** to restrict **unauthorized** file downloads, enhancing security and reducing unauthorized access incidents by **30%**.
- Integrated **Clerk** for Authentication and Authorization, with ongoing implementation of Next-auth. [Github](#)

### AskAI | FastAPI, React, LLM, Langchain

- Developed a **RAG-based** application named **Ask AI**, enabling 300+ users to upload PDF files, select specific sentences, and interactively ask **context-aware** questions answered by an **LLM**, reducing manual document search time by over 50%.
- Built the backend using **FastAPI, Python, and Langchain**, implementing document parsing and **semantic search** with HuggingFace's **all-MiniLM-L6-v2 embeddings** for efficient retrieval.
- Created an intuitive frontend with **React**, enabling **real-time sentence** selection from PDFs and interactive **question-answering** in a responsive web interface. [Github](#)

## Technical Skills

**Languages:** C++, JavaScript, Typescript, Python

**Technologies:** HTML, CSS, React.js, Next.js, TailwindCss, Node.js, Express, FastAPI, MongoDB, MySql, Postgresql, Firebase, Docker, CI/CD, ANN, CNN, RNN, Langchain.

**Tools:** Git, GitHub, Bitbucket, AWS, JIRA, Mongoose, Sequelize, VS Code, Grafana.

## Achievement

- Recognized as **Employee of the Month (September 2024)** for demonstrating **strong leadership qualities** and consistently delivering high-impact work; received notable appreciation from leadership and peers. [Appreciation Post](#) and [Words from CEO](#).
- Top **19.36%** and **1600+** rating at [Leetcode](#).
- Solved over **400+** **Data Structures and Algorithms** questions on [Leetcode](#) and [GeeksForGeeks](#).