

# SHIVKIRAN CHITKULWAR

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## Education

### Shri Guru Gobind Singhji Institute of Engineering and Technology

Bachelor of Technology in Computer Engineering (CGPA: 8.85 / 10.00)

Aug 2021 — May 2025

Nanded, Maharashtra

### Heritage International Junior College

Higher Secondary Certificate (HSC) (Percentage: 97%)

Aug 2020 — May 2021

Nanded, Maharashtra

### Jawahar Navodaya Vidyalaya

Secondary School Certificate (SSC) (Percentage: 94.4%)

Aug 2018 — May 2019

Nanded, Maharashtra

## Experience

### FLAME University

Feb 2025 – Present (5 months)

#### Software Developer Intern (Onsite)

Pune, Maharashtra

(Under the mentorship of Prof. Prajish Prasad, Assistant Professor – Computer Science)

- Built an **eye-tracking application** with **WebGazer.js** to help admins and researchers analyze **user attention**.
- Developed **full-stack features** using **Next.js**, **React**, **MongoDB**, **Clerk (OAuth)**, and **WebGazer**.
- Handled complete **testing and deployment** across both frontend and backend, streamlining development.
- Improved development **speed and accuracy** by independently managing the entire **project lifecycle**.

### Wayport (Startup)

Dec 2023 – Dec 2024

#### Full Stack Developer (12+ Months)

Nanded, Maharashtra

- Developed a **multi-modal travel application** suggesting optimal routes using multiple **transport modes**.
- Implemented **frontend** using **React.js** and managed **backend services** with **Node.js** and **Express**.
- Integrated **MySQL** for efficient data storage and retrieval; performed **data analysis** to support route optimization.
- Utilized **AWS (EC2, S3)** for deployment, **Docker** for containerization, ensuring **scalable and reliable deployments**.
- Collaborated on **UI/UX design** and **system architecture** to deliver a **seamless, user-centric travel experience**.

## Projects

### Jyeshthanubandh | React Native, Vue.js, Flask, PostgreSQL, AWS (EC2)[Government App]

[Link](#)

- Developed and deployed a **senior citizen app** with **21,000+ users**, in collaboration with the **PCMC Commissioner**.
- Implemented **real-time one-tap emergency alerts** connecting users to the **Police Control Room**, with instant display of **user profile**, **medical history**, and **location** on the **admin dashboard** for faster response.
- Integrated **verified emergency contacts**, **government scheme information**, and **personalized healthcare coordination** features to enhance user support.
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- Received a certificate of appreciation from the **Honourable Chief Minister of Maharashtra** [\[View Certificate\]](#)

### LinerPix | Next.js, Clerk (OAuth), Gemini AI, MongoDB, WebGazer.js, React Voice Recognition, OpenAI

- Engineered an **AI-driven interactive platform** that converts user-input **stories or articles into sequential visual illustrations**, maintaining character consistency using **Gemini AI** and deployed with **Next.js** and **MongoDB**.
- Integrated **voice recognition** (React Voice Recognition) and **eye-tracking** (WebGazer.js) to enable real-time **reading comprehension analysis**, tracking mispronunciations and gaze behavior.
- AI-based content generator** for auto-creating storylines and visuals, with **Clerk (OAuth)** secure authentication.

### PDFsolve | LangChain, Gemini AI, Convex (Vector DB), Next.js, Clerk (OAuth), Tiptap

- Developed AI-powered PDF assistant using **Next.js**, enabling users to **upload PDF files**, **extract notes**, and **ask questions** powered by **Gemini AI** and **LangChain**, with fast semantic search via **Convex vector database**.
- Implemented secure authentication using **Clerk (OAuth)** and integrated a rich text editor with **Tiptap**, allowing users to format responses with features like **headings**, **bold**, **italics**, and **lists** for an enhanced interactive experience.

## Technical Skills

**Languages:** Proficient in – Python, JavaScript, SQL, HTML, CSS; Familiar with – TypeScript, Java, C

**Frameworks & Libraries:** Next.js, React.js, Node.js, Express.js, React Native, Flask

**Databases:** MongoDB, MySQL, PostgreSQL

**DevOps & Deployment:** Docker, AWS, Google Cloud

**Tools & Utilities:** GitHub, Postman, REST API

**AI & Machine Learning:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, TensorFlow, OpenCV, LangChain