SHIVKIRAN CHITKULWAR

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Education

Shri Guru Gobind Singhji Institute of Engineering and Technology	Aug 2021 — May 2025
Bachelor of Technology in Computer Engineering (CGPA: 8.85 / 10.00)	*Nanded, Maharashtra*
Heritage International Junior College	Aug 2020 — May 2021
Higher Secondary Certificate (HSC) (Percentage: 97%)	*Nanded, Maharashtra*
Jawahar Navodaya Vidyalaya	Aug 2018 — May 2019
Secondary School Certificate (SSC) (Percentage: 94.4%)	*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), Gemeni AI, MongoDB, WebGazer.js, React Voice Recognition, OpenAI*　　　Link
- 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.

Faculty-Agent | *LangChain, Gemini AI, Chroma, Next.js, GCP*　　　　　　　　　　　　　Link
- Developed an AI-powered **chat application** to explore faculty **profiles, research interests, and publications**, enabling students to search by domain or project interest.
- Integrated **semantic search** with Chroma and **Gemini AI** to generate insights, with dashboards in Next.js showing faculty **statistics and research trends**.

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, FastAPI
Databases: MongoDB, MySQL, PostgreSQL
DevOps & Deployment: Docker, AWS, Google Cloud Platform
Tools & Utilities: GitHub, Postman, REST API
AI & Machine Learning: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, TensorFlow, OpenCV, LangChain, LangGraph