

# Suraj Jangavali

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## SKILLS

**Programming Languages:** Python, JavaScript

**Frontend Development:** React (TypeScript), Tailwind CSS, HTML5, CSS3

**Backend Development:** Laravel, FastAPI, RESTful APIs, GraphQL

**Databases and Caching:** MySQL, Redis, FAISS Vector DB

**DevOps & Tools:** Git, GitHub, Docker, AWS, CI/CD, Linux

## EDUCATION

**KLS Gogte Institute of Technology , Belgaum**

Feb 2023 - Nov 2025

*Master of Computer Application*

GPA: 8.1 /10.0

**Global College of BCA , Hubli**

June 2019 - Jan 2023

*Bachelors of Computer Applications*

GPA: 7.2 /10.0

## EXPERIENCE

**Nantech Solutions**

May 2025 - July 2025

*Software Developer Intern*

- Designed and deployed a centralized authentication system using Keycloak to secure **3+ Core PHP applications**.
- Configured realms, clients, roles, and authorization policies to implement **role-based access control for 100+ users** across modules.
- Enabled enterprise authentication features including **SSO, SLO, 2FA, and single-session enforcement** to strengthen account security.
- Implemented secure **email registration** and **password reset workflows**.
- Built administrative user management, control sessions (including forced logout), and role management with **fine-grained access control**.

**Chromosis Technologies**

Sept 2025 - Present

*Software Engineer*

- Built and delivered full-stack web applications using React (TypeScript), Tailwind CSS, Laravel, and MySQL across multiple production modules.
- Integrated **REST** and **GraphQL** APIs into frontend components, improving data loading reliability and reducing UI latency by **20–30%** through optimized state handling and API calls.
- Owned features end-to-end — from requirement analysis and development to testing and deployment within **agile sprint cycles**.
- Produced scalable, maintainable code aligned with engineering standards, contributing to **15–25% fewer QA defects** and faster review cycles.
- Participated actively in **requirement discussions** and **cross-functional team collaboration**, helping translate business needs into clear technical solutions and contributing to well-scoped sprint tasks.

## PROJECTS

**Generative AI News Research Tool — Full-Stack RAG Application** ( *React, Tailwind CSS, LangChain, OpenAI, Streamlit, Python, FAISS* )

Build a full-stack AI research platform enabling users to analyze multiple finance news articles via URL ingestion and natural-language queries.

- Engineered a Retrieval-Augmented Generation (RAG) pipeline with **LangChain**, converting scraped article content into embeddings and storing them in a **FAISS** vector index for enabling **semantic search across 10+ documents** with fast retrieval latency.
- Integrated **OpenAI** models for embeddings and grounded answer generation, ensuring responses are **context-aware** and **sourced directly** from uploaded articles.
- Built **REST APIs** for URL processing, document indexing, and question answering, enabling seamless frontend-backend communication and real-time research queries.
- Designed responsive UI with URL management, question input, loading states, and citation display, improving **usability** and **reducing manual research time by 40–60%** compared to reading articles individually.
- Engineered system to support multi-document querying, source attribution, and scalable indexing workflow, simulating a real-world **equity analyst research assistant**.

**EduProjectStore - Full-Stack E-Commerce Platform** ( *React(TypeScript), Laravel, MySQL, Redis* )

Architected and launched a scalable full-stack e-commerce platform offering educational project templates and reference implementations for students across India, enabling hands-on learning and faster project development

- Engineered a **dual-interface system** with Laravel Blade for the customer-facing storefront and a **React 18 + TypeScript** admin dashboard, unified through a centralized RESTful APIs with JWT authentication and role-based access control (RBAC)
- Integrated **Razorpay payment gateway** with multi-step checkout, digital download generation, time-limited S3/GCS asset delivery with access control, and physical shipment coordination for end-to-end order fulfillment
- Built an **advanced search and filtering engine** with multi-parameter queries and Redis caching, optimizing page load times to <2s and database query performance to <100ms (P95) — reducing estimated DB load by 60–70%
- Developed a **mobile-first responsive frontend** using Tailwind CSS 4.0 and Vite targeting 65–75% mobile traffic, achieving Core Web Vitals compliance (LCP <2.5s, FID <100ms, CLS <0.1) and SEO-optimized architecture for high-intent keyword rankings
- Implemented platform trust features including a **moderated review/rating system**, queue-based transactional email notifications, 2FA, CSRF/XSS/SQL injection protections, and a PHPUnit test suite covering critical payment and auth flows
- Implemented and set up a **CI/CD pipeline** enabling automated build and deployment of applications to AWS environments.