

HARSHAD SELOKAR

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SUMMARY

Full Stack Developer and AI Engineer with 1+ years of experience building scalable web applications and intelligent systems using React.js, TypeScript, Node.js, and Python. Proven experience integrating RAG systems, LLM pipelines, and ML models into production-grade applications. National level hackathon winner with hands-on expertise in REST APIs, CI/CD, Docker, and cloud deployment (Render, Vercel). Currently pursuing B.Tech in Computer Engineering, seeking Software Engineer / Full Stack Developer roles.

EDUCATION

St. Vincent Pallotti College of Engineering & Technology

B.Tech in Computer Engineering — CGPA: 8.44/10

Dr. Babasaheb Ambedkar College of Science

Higher Secondary Certificate (HSC)

Nagpur, Maharashtra

Aug. 2023 – Present

Bramhapuri, Maharashtra

March 2022

EXPERIENCE

Software Developer Intern

TPDC SVP CET

Nov. 2025 – Apr. 2026

Nagpur, Maharashtra

- Built a production-grade college portal with Node.js, Express, and EJS, unifying gatepass, attendance, room booking, and complaint workflows for 100+ daily users.
- Implemented secure authentication and role-based access control using bcrypt and session-based middleware.
- Designed SQL relational database with full schema, migrations, and seed scripts; integrated file upload for document and image management.

Web Master & Treasurer

ACM Student Chapter, SVP CET

Jul. 2025 – Present

Nagpur, Maharashtra

- Architected and deployed ACM chapter website using React.js and Node.js, growing membership to 100+ active users with 40% higher engagement.
- Set up CI/CD pipeline with GitHub Actions, cutting deployment time by 60% with zero-downtime releases.
- Maintained Express.js and MongoDB backend serving 100+ monthly API requests at 99.9% uptime; achieved 95+ Lighthouse performance score.
- Conducted 5+ technical workshops on Prompt Engineering and Competitive Coding, training 200+ students.

Software Developer Intern

Vectortek Labs Pvt. Ltd.

Mar. 2025 – Jun. 2025

Nagpur, Maharashtra

- Built React.js and TypeScript frontend modules, improving internal workflow efficiency by 35% for 50+ team members.
- Integrated REST APIs with Node.js backend, reducing data fetch latency by 45% via caching and optimized state management.
- Achieved 85% unit test coverage with Jest and React Testing Library, reducing production bugs by 30%.

Website Advisor & Frontend Developer

TECHNEX – National Technical Fest, SVP CET

Dec. 2024 – Jan. 2025 & Nov. – Dec. 2025

Nagpur, Maharashtra

- Built 15+ responsive pages using React.js and TailwindCSS for a national college fest handling 2,000+ concurrent users.
- Implemented advanced animations with GSAP and Three.js, increasing user engagement by 55%.
- Reduced bundle size by 40% via code splitting and tree shaking, improving page load from 4.2s to 2.5s.

PROJECTS

SiteSage – RAG-Based AI Chatbot Generator | Python, FastAPI, React, Redis, pgvector

- Built a production-ready RAG platform converting websites into AI chatbots, processing 50+ pages/minute with semantic search latency under 100ms.
- Achieved 96% answer accuracy using context-grounded retrieval with citation-based source attribution; Redis caching reduced API costs by 60%.

CoExist – AI Wildlife Monitoring System | YOLOv8, React Native, Node.js, MongoDB, FastAPI

- Engineered an AI wildlife monitoring platform using YOLOv8, achieving 94% accuracy in identifying 5 animal species.
- Built React Native app with real-time GPS tracking and geo-fencing across defined alert zones; deterrence system triggered automated alerts with sub-2s detection-to-alert latency during field testing.

- Designed RESTful APIs with MongoDB for real-time sensor data ingestion and management.

Prompt Spark Engine – LLM Prompt Optimizer | *Python, Mistral, Ollama, FastAPI, React, TailwindCSS*

- Built a privacy-first prompt evaluation platform using a local Mistral LLM (Ollama) with 5-dimension quality scoring and 92% inter-rater reliability.
- Automated prompt optimization achieving 38% average quality improvement; reduced evaluation time from 8s to 2.3s via batching and caching.

FinPilot AI – AI Personal Finance Copilot | *React Native, FastAPI, SQLite, Scikit-learn, Prophet, Llama 3.3*

- Built an AI-powered personal finance app for Indian users that parses SMS transaction data, categorizes expenses using NLP + ML models, and delivers personalized budgeting, savings, and investment recommendations.
- Implemented spending prediction using time-series forecasting (Prophet) and transaction anomaly detection using Isolation Forest for real-time fraud and scam identification.
- Integrated Llama 3.3 70B as an AI Chat Copilot for goal-based financial planning, cashflow insights, and behavioral financial profiling with explainable recommendations.
- Designed a modular multi-model backend architecture combining ML, NLP, forecasting, and LLM systems via FastAPI, deployed on Render/Vercel.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C++, SQL, HTML5, CSS3

Frontend: React.js, Next.js, React Native, TailwindCSS, Material UI, Bootstrap, GSAP, Three.js

Backend & APIs: Node.js, Express.js, Flask, FastAPI, REST APIs, GraphQL

Databases: MongoDB, PostgreSQL, MySQL, Firebase, Supabase, FAISS, pgvector

AI / ML: RAG Systems, LLM Integration, Prompt Engineering, YOLOv8, TensorFlow, OpenCV

Testing & DevOps: Jest, React Testing Library, Git, Docker, GitHub Actions, AWS (CloudFront, S3, serverless hosting), CI/CD, Linux

ACHIEVEMENTS & CERTIFICATIONS

- Won 6 national-level hackathons: BIT-TATR Hackathon, Cygnus-IEEE CS Hackathon, TechSprint-26 GDG Hackathon + 3 more across AI, Web, App, and Systems domains.
- Solved 150+ DSA problems on LeetCode across Data Structures, Dynamic Programming, and Graphs.
- Mentored 50+ students in web development and competitive programming through ACM chapter.

Certifications: Fundamentals of Deep Learning & Building RAG Agents with LLMs (NVIDIA) · Programming, DSA with Python – Elite (NPTEL, IIT Madras) · SQL Fundamentals, C++ Programming, React Development (HackerRank)