OMDARSHAN UTTAM SHINDE PATIL

+91 9359037001 | omdarshanpatil@gmail.com | portfolio-omdarshanpatil.vercel.app

in omdarshanshindepatil | ⚫ omdarshan-4964 | 🐦 Omdarshan_jsx

Pune, Maharashtra - 413106, India

OBJECTIVE

Aspiring **Software Engineer** with robust expertise in **Full-Stack Development**, **Agentic AI**, and **Cloud Architecture**. Proficient in building production-grade applications using **Next.js 16**, **Node.js**, and **Modern DevOps Practices**. Eager to leverage skills in **Distributed Systems** and **Real-time Communication** to drive innovation and build scalable solutions in a dynamic engineering environment.

TECHNICAL SKILLS

- **Frontend & AI:** **React.js**, **Next.js 16**, Tailwind CSS, **Gemini API**, React Flow, Agentic AI Systems
- **Backend Architecture:** **Node.js**, **Express.js**, RESTful APIs, **WebSockets**, Microservices, JWT Auth
- **Programming Languages:** JavaScript (ES6+), TypeScript, Java, C++, Python
- **Database & Cloud:** NoSQL (**MongoDB**), SQL (MySQL, PostgreSQL), Prisma ORM, **Docker**, AWS, Vercel
- **Core CS Concepts:** DSA, OOP, System Design, Real-time Communication, Distributed Systems

PROJECTS

- **AI Workflow Builder - Agentic Orchestration Engine** *Jan 2026 - Present*
  Tools: Next.js 16, React Flow, Gemini 1.5, Zustand, MongoDB [⚫] [🌐]
  - Architected a **visual DAG (Directed Acyclic Graph) builder** using **React Flow**, enabling users to design complex AI workflows.
  - Implemented a **"Fan-Out" architecture** to trigger parallel AI agent execution using **Gemini 1.5 Flash**.
  - Integrated **Zustand** for complex state management to handle real-time graph updates and undo/redo functionality.
  - Built a high-performance interactive UI, demonstrating strong proficiency in **modern React patterns** and AI integration.

- **CodeStream - Real-Time Collaborative Code Editor** *Aug 2025 - Sep 2025*
  Tools: Next.js, TypeScript, Node.js, WebSockets, Docker [⚫] [🌐]
  - Built a low-latency **collaborative development platform** allowing multiple users to code together in real-time.
  - Implemented **WebSockets (Socket.IO)** to achieve <50ms latency for instant character-by-character synchronization.
  - Developed a **remote execution engine** enabling users to run code and receive output instantly in a secure sandbox.
  - Optimized backend performance to handle concurrent user sessions, ensuring reliability for distributed teams.

- **SecureAuth Gateway - Enterprise Authentication System** *Dec 2025 - Jan 2026*
  Tools: Next.js, TypeScript, Express.js, MongoDB, JWT [⚫] [🌐]
  - Engineered a robust authentication infrastructure focused on **security best practices** and data integrity.
  - Implemented **Dual-Token Architecture** (Access/Refresh) with httpOnly cookies to prevent XSS and CSRF attacks.
  - Built scalable APIs capable of handling high traffic, ensuring reliability for critical user identity management.
  - Containerized the application using **Docker** to ensure consistent deployment across development and production.

LEADERSHIP EXPERIENCE

- **Secretary (2025) & Technical Co-Head (2024)** *Jan 2024 - Feb 2025*
  Pioneer, KITCOEK
  - Led a national-level technical event, managing a team of 150+ and ensuring smooth operations and logistics.

- **Winner (Semester VI) & 1st Runner-Up (Semester III)** *May 2025*
  PBL Day Competition, KITCOEK
  - Awarded for building high-impact full-stack solutions and demonstrating exceptional problem-solving skills.

EDUCATION

- **KIT's College of Engineering Kolhapur (Empowered Autonomous)** *Jun 2026*
  B.Tech in Computer Science and Business Systems (GPA: 7.69/10) Kolhapur, Maharashtra
  - Relevant Coursework: Web Technology, Data Structures, Database Management Systems, Operating Systems.

CERTIFICATIONS & LEARNING

- **Full Stack Web Development Cohort - 0-100 (Advanced Security)**
- **Actively Learning:** Advanced Distributed Systems, Machine Learning Pipelines, and Cloud Native Architecture.