

# Tanmay Singewar

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## Professional Summary

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Full Stack Developer focused on building scalable systems and pixel-perfect, high-performance web applications. Hands-on experience in agent-driven automation and production-ready AI solutions, delivering systems that improve operational efficiency by up to **40%**.

## Technical Skills

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**Frontend:** React.js, Next.js, JavaScript, TypeScript, HTML5, CSS3, TailwindCSS, Mantine UI

**Backend:** JavaScript, TypeScript, Node.js, Express.js, FastAPI, Python, Convex, WebSockets, BetterAuth

**Databases:** DevOps, MongoDB, PostgreSQL, Redis, Pinecone (Vector DB), Prisma, Drizzle ORM

## Professional Experience

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### Full Stack Developer — VegaStack

HSR, Bengaluru

Sept 2025 – Present

#### DevOps Deep Agent — Agent for DevOps operations and incident/log access

- Built a DevOps AI agent with custom tools and middleware, automating workflows and reducing manual effort by **45%**.
- Developed a secure credentials vault ensuring zero credential exposure while enabling controlled agent access.
- Designed an internal chat interface with human-in-the-loop (HITL), improving debugging efficiency by **30%**.

#### VegaStack Platform — DevOps automation platform

- Architected a scalable backend using Next.js App Router and caching strategies, improving performance by **35%**.
- Built a secure authentication system (OAuth, OTP, email/password) supporting **1000+ users**.
- Integrated Stripe billing and subscriptions, enabling automated revenue workflows.
- Implemented server-side security and middleware authorization, reducing vulnerabilities by **50%**.

#### Chaabi — Construction site management system

- Optimized backend APIs, reducing latency by **40%** and enabling real-time data retrieval.
- Built a ticket management system with RBAC, improving issue resolution efficiency by **30%**.
- Transformed analytics from cron-based to real-time, improving dashboard responsiveness by **60%**.

*Tech: Next.js, TypeScript, PostgreSQL, Stripe, BetterAuth, TailwindCSS, Python, LangChain, Cloudflare*

### Full Stack Developer — CultureVo (Remote)

Sept 2024 – April 2025

#### NoviAI — AI companion with cultural and emotional intelligence

- Architected and built a full-stack AI application using Next.js and FastAPI from scratch.
- Developed a conversational AI system with vector databases, improving response relevance by **35%**.
- Designed memory management and proactive messaging, increasing user engagement by **25%**.
- Scaled infrastructure from prototype to production, supporting **500+ active users**.
- Managed AWS EC2 deployment and GitHub workflows, improving deployment speed by **40%**.

*Tech: Next.js, FastAPI, OpenAI, Pinecone, Llama3, AWS EC2, Redis, PostgreSQL*

## Projects

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### Pinocchio — CLI-based AI Agent Framework

GitHub

- Built a custom AI agent framework from scratch using TypeScript without external agent libraries.
- Designed modular tool system with read/edit capabilities and configurable execution modes (Research, Plan, Edit).
- Implemented CLI interface for seamless interaction, improving developer workflow efficiency by **30%**.
- Integrated schema validation using Zod, ensuring type-safe tool execution and reliability.

## Education

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### B.Tech in Artificial Intelligence and Data Science

Yeshwantrao Chavan College of Engineering, Nagpur

Nov 2022 – Apr 2025

### Diploma in Electronics and Telecommunications

Government Polytechnic, Nagpur

Aug 2019 – Mar 2022