VEDANT BHOSALE

Backend & DevOps Engineer | Applied AI

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SKILLS

Languages
Python, JavaScript, TypeScript, Java, SQL

Backend
Node.js, Express, FastAPI, REST APIs, JWT auth, Prisma ORM

Databases & Queues
PostgreSQL, MySQL, Redis, BullMQ

DevOps & Linux
Docker, Docker Compose, Nginx, GitHub Actions CI/CD, Linux (Ubuntu) server administration, TLS/SSL (Let's Encrypt), DigitalOcean

AI / ML
RAG, LLM APIs (Gemini), LangChain, FAISS, Hugging Face, OpenCV, InsightFace, YOLOv8, NumPy, Pandas, Scikit-learn

Frontend
React.js, Next.js, Tailwind CSS

Tools & Other
Git, GitHub, VS Code, Unity, Meta XR SDK

CURRENTLY LEARNING

- Java Spring Boot
- Computer networking
- LLM application development

EDUCATION

B.E. Computer Engineering
Wadia College of Engineering (MESWCOE), Pune
Savitribai Phule Pune University
2022 – 2026 · CGPA 8.10

Higher Secondary (HSC)
Sou. Vimalabai Garware Jr. College, Pune
2022 · 71.82%

Secondary (SSC)
Genba Sopanrao Moze School, Pune
2020 · 92.60%

ACHIEVEMENTS

- Anthropic certifications: Claude Code 101, Claude Code in Action
- Unity Junior Programmer certification

SUMMARY

Computer Engineering graduate (B.E., CGPA 8.10) focused on backend engineering, DevOps, and applied AI. Built and run PulseCheck, a live uptime and API monitoring SaaS deployed on a Linux server with Docker, Nginx, and CI/CD. Also built computer-vision and RAG systems. Currently deepening Java Spring Boot, networking, and LLM application development.

PROJECTS

PulseCheck — Live Uptime & API Monitoring SaaS

pulsecheck.bhosalevedant.dev · github.com/Vedant3030/pulsecheck

- Live uptime and API monitoring SaaS with response assertions, SSL/expiry and heartbeat checks, email alerts, and public status pages.
- Express + PostgreSQL (Prisma) API with JWT auth and rate limiting; a BullMQ/Redis worker runs the scheduled checks.
- Security: SSRF protection on user-supplied URLs; API credentials encrypted at rest (AES-256-GCM).
- Deployed on DigitalOcean with Docker Compose, Nginx, auto-renewing SSL, and GitHub Actions CI/CD.
- Fixed real production incidents: Redis quota outage, disk exhaustion from Docker cache.

Node.js · Express · Next.js · PostgreSQL · Prisma · Redis · BullMQ · Docker · Nginx · GitHub Actions

Veridex — Digital Identity & Document Verification

In Progress

- Pipeline: document classification → OCR extraction → face match → confidence scoring → audit trail.
- v1 prototype: one document type, core OCR fields, working face match, API output.

InsightFace · YOLOv8 · FastAPI · PostgreSQL · OpenCV

EDU-VISION — AI-Powered Attendance System

Final Year Project

- Facial-recognition attendance system that automates attendance and reduces proxy entries.
- Attendance analytics delivered through a secure web app.

Python · OpenCV · FastAPI · PostgreSQL · React.js

Internal Docs Q&A Agent

AI Agent Hackathon, 2025

- RAG pipeline over internal documents: FAISS semantic search + Gemini API.
- Built and demoed live (Streamlit) in a 48-hour hackathon.

LangChain · FAISS · Hugging Face · Gemini API · Streamlit

Qubits & Schrödinger's Cat — Educational VR

Semester Project

- 3-scene Unity VR experience teaching quantum computing: classroom intro, superposition, entanglement.
- Built UI, audio, and controls with the Meta XR SDK.

Unity · C# · Meta XR SDK

EXPERIENCE

VR Development Intern · Firebird VR

Jun 2025 – Aug 2025

- Worked on Unity-based VR application development through a college-placement internship: scene setup, VR interaction logic, and build testing.

Research Assistant · College Faculty Project

Jan 2025 – May 2025

- Applied statistical methods in Python to detect anomalies and outliers across datasets of 5 lakh+ entries.