

# Gouresh Vernekar

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## Education

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Ajeenkya DY Patil University, Bachelor of Technology in Computer Science

Aug 2022 – May 2026

- GPA: 7.3/10
- Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Object-Oriented Programming, Web Technologies.

## Experience

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Software Engineer – Python Full Stack, Funnkar Design House – Pune, India

Mar 2025 – Jan 2026

- Designed and built full-stack web applications using Python and modern frontend frameworks, owning features end-to-end from backend APIs to polished client-side integration, QA testing, and production rollout.
- Implemented scalable backend services with Python (API design, business logic, authentication, and validation) and integrated relational databases with optimized queries, indexing, and efficient data access patterns.
- Developed responsive, performance-focused user interfaces and reliable client-server communication through RESTful contracts, structured error handling, consistent payload conventions, and predictable status codes.
- Managed deployments, environment configuration, and version control workflows to support iterative development, quick hotfixes, and stable production releases across multiple client deliverables and deadlines.

Software Engineer – Full Stack, Freelance – India

Jan 2024 – Feb 2025

- Delivered end-to-end full-stack applications as an independent developer, owning system design, implementation, testing, documentation, and deployment across multiple client requirements and timelines.
- Built backend services and REST APIs using Python/Node.js, integrating relational databases with secure authentication, validation, and production-grade error handling for reliability and maintainability.
- Implemented responsive frontend interfaces and ensured reliable client-server communication with versioned APIs, structured error handling, and maintainable component patterns for long-term support.

## Projects

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Voice+Gesture Assisted RPA System

[github.com/Morth01](https://github.com/Morth01)

- Built an end-to-end multimodal automation pipeline: audio capture + video input → speech recognition / gesture inference → intent fusion → guarded action execution with a web-based frontend dashboard to monitor system performance and runtime indicators (command latency, status, error rates) with real-time updates.
- Engineered modular automation handlers with safety checks, rate limiting, and OS-specific adapters.

Cross-platform Android POS application

[github.com/Morth01](https://github.com/Morth01)

- Cross-platform POS application built with React Native + Expo, integrated with native Kotlin modules for system-level functionality, device I/O, and stable printer integration. Integrated a live website via WebSockets for real-time order/status updates. Engineered reliable order processing, billing flows, and device integration.

CoVault — Multi-Tenant University Cloud Platform

[Figma/CoVault](#)

- Multi-tenant university cloud platform with RBAC, secure session handling, and REST APIs backed by indexed relational data models for scalable access control. Implemented real-time features using WebSockets for messaging, notifications, and activity updates, with robust authorization, and data validation.

## Technical Skills

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Languages: Python, Java, JavaScript, TypeScript, SQL

Frontend: React, Next.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, REST API Design, Authentication & Authorization (RBAC), API Validation

Databases: PostgreSQL, MySQL, Supabase, Firebase

Computer Vision / ML: OpenCV, OCR Pipelines, Image Processing, Supervised Learning, Model Evaluation

Tools & Platforms: Git, GitHub, CI/CD, Vercel, Linux, Cloud Deployments

Core Concepts: Data Structures & Algorithms, System Design, Software Architecture, Performance Optimization