

PRANAV GAIKWAD

Software Engineer

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 1.5+ years of professional experience building and shipping production-grade SaaS products across web, desktop (Windows & macOS), and mobile platforms. Expertise in React, Node.js, TypeScript, and PostgreSQL, with a proven track record of designing real-time tracking systems, analytics platforms, and secure authentication architectures. Experienced in taking products from concept to production release, owning systems end-to-end, and eliminating external dependencies through native engineering solutions.

SKILLS

Frontend: React.js, Next.js, Tailwind CSS, shadcn/ui, Recoil, TypeScript

Backend: Node.js, Express.js, REST APIs, Prisma ORM, JWT Authentication, Role-Based Access Control (RBAC)

Databases: PostgreSQL, TimescaleDB, MongoDB, MySQL, Firebase, SQLite

Desktop & Systems: Rust, Tauri, Cross-platform Desktop Development (Windows & macOS), Native System APIs, Background Agent Architecture

DevOps & Tools: Docker, Git, GitHub Actions (CI/CD), Postman, Swagger, Turborepo, JIRA

Programming Languages: JavaScript, TypeScript, Rust, Java, C/C++, Python

Other: Axios, Zod, Shell Scripting, Mobile Development (Flutter), Web Browser APIs

EXPERIENCE

Founding Engineer & Team Lead | [Time Supervisor India Pvt. Ltd.](#)

Dec 2024 – Present

Project 1: Time Supervisor Web Application

- **Designed and built a scalable backend** using Node.js, Express, Prisma ORM, PostgreSQL, and TimescaleDB, supporting real-time data ingestion, processing, and analytics at scale.
- **Implemented secure authentication and role-based access control (RBAC)**, including JWT-based auth, audit logging, and multi-tenant data protection across all user roles (Admin, Manager, Superadmin, Employee).
- **Developed a responsive React-based web dashboard** with onboarding flows, organisation management, real-time analytics reporting, and PDF/CSV export capabilities.
- **Built a native website tracking mechanism**, completely eliminating the dependency on browser extensions for website data collection, improving reliability and reducing external dependencies.
- **Contributed to CI/CD pipelines** using GitHub Actions and Docker, streamlining build, test, and deployment workflows.

Tech: React.js • Tailwind CSS • shadcn/ui • Recoil • Node.js • Express.js • Prisma ORM • PostgreSQL • TimescaleDB • TypeScript • Docker • GitHub Actions • Swagger • JIRA

Project 2: Time Supervisor Desktop Application (Windows & macOS)

- **Engineered a cross-platform desktop application** using Rust + Tauri + React, shipping to both Windows and macOS with a unified codebase.
- **Implemented offline sync, OTA auto-update, and native system integration**, ensuring reliable operation in low-connectivity environments without external tooling.
- **Built activity tracking capabilities directly into the client:** keyboard/mouse input signals, active window monitoring, and browser URL tracking, with no browser extension required.
- **Delivered all core user-facing features:** time tracking, break management, screenshot capture, screen recording, analytics views, manual time entry, and leave requests.

Tech: Rust • Tauri • React.js • TypeScript • Tailwind CSS • Native System APIs • SQLite • GitHub Actions

Project 3: Time Supervisor Agent

- **Architected a silent headless background daemon** in Rust for MDM-managed deployments, running as a LaunchDaemon on macOS and a Windows SCM Service on Windows, zero user interaction required after provisioning.
- **Implemented MDM / zero-touch deployment** via plist (macOS) and JSON (Windows) config files, with automatic device enrollment and organisation registration on first launch.

- **Shared core business logic with the desktop application** (activity tracking, screenshot capture, screen recording, blur mode, auto sync), ensuring consistency and eliminating code duplication across products.
- **Built an offline-first data pipeline** that continues tracking without internet connectivity and batch-uploads to the dashboard on a 5-minute sync cycle once connection is restored.

Tech: Rust • macOS LaunchDaemon • Windows SCM • MDM Provisioning • Background Agent Architecture • Cross-platform Systems Programming

PROJECTS

Central Assessment Program | Team Project | [GitHub](#)

Jul 2023 – Apr 2024

- **Built a full-stack online assessment platform** using the MERN stack, digitizing academic workflows and significantly reducing manual administration effort.
- Implemented **secure JWT authentication**, real-time updates, and dynamic UI for a seamless exam experience.
- Designed and integrated **RESTful APIs**, owning the complete backend architecture and database schema.

Tech: React.js • Node.js • Express.js • MongoDB • Axios • Postman

EV Station Finder | Freelance | [GitHub](#)

Dec 2023 – Jan 2024

- **Developed a cross-platform mobile application** using Flutter for locating and booking EV charging stations, with real-time availability and integrated payment gateway.
- Delivered **end-to-end** from client requirements through design, development, and deployment, managing the project independently.

Tech: Flutter • Firebase • Client Management

EDUCATION

Dr. D. Y. Patil Institute of Technology, Pimpri | Bachelor of Engineering - Information Technology

2021 – 2024

CGPA: 8.26 / 10

MIT Polytechnic, Pune | Diploma - Information Technology

2018 – 2021

Score: 95.19%

LEADERSHIP & ACTIVITIES

Advisor | Information Technology Students' Association

2023 – 2024

Sr. Technical Head | Information Technology Students' Association

2022 – 2023

ACHIEVEMENTS

- **Shipped a multi-platform SaaS product to production**, covering web dashboard, Windows & macOS desktop application, and a silent background agent, usable by real end users.
- Eliminated browser extension dependency by engineering a **native website tracking mechanism**, reducing external dependencies and improving system reliability.
- Built and maintained **scalable analytics systems** powering real-time dashboards and time-series reporting using TimescaleDB.
- Implemented **end-to-end security** including JWT authentication, RBAC, and audit logging across a multi-tenant SaaS platform.
- **Achieved 95.19% in Diploma** (Information Technology), ranking among top performers.