

AMAAN WARSI

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SUMMARY

Software Development Engineer specializing in backend architecture. Engineered a real-time SaaS platform (ZaykaTap) using Node.js and React Native, with Redis-backed WebSockets and RabbitMQ async processing cutting database I/O by 90%. Skilled in containerized, CI/CD-driven deployments.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, TypeScript, SQL, PHP

Frontend: Next.js, React.js, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, Laravel, REST APIs, WebSockets, MySQL, Redis, RabbitMQ

Mobile Development: React Native, Expo, NativeWind

DevOps & Tools: Docker, Git, GitHub, GitHub Actions, CI/CD, SSH, Cron Jobs, Bash

Familiar with: C++, Microservices architecture, Apache Kafka, rclone

PROJECTS

ZaykaTap | <https://thezaykatap.com/> | 2025

Full-stack SaaS ecosystem for real-time QR-based digital menus and restaurant management.

- Sole Architect & Engineer: Designed the complete system from schema to deployment, building a cross-platform mobile and web app with real-time order sync and analytics.
- Payment webhooks under 100ms with idempotency and retries, near-zero duplicates.
- Containerized monolith (microservices-ready) with zero-downtime GitHub Actions deploys.

Tech: React Native, Express.js, PHP, Redis, WebSocket, RabbitMQ, MySQL, Docker, CI/CD (GitHub Actions)

Proctora | <https://github.com/amaanwarsi/Proctora> | 2025

An open-source exam proctoring system with token auth, session locking, and device fingerprinting.

- Implemented real-time monitoring using OpenCV & MediaPipe (face, audio, window activity) with automated violation detection
- Designed relational schema for sessions, violations, and results (SQLite → MySQL)
- Integrated CI pipeline using GitHub Actions

Tech: Python, Flask, OpenCV, MediaPipe, SQLite, MySQL, PyGetWindow, GitHub Actions

Alapdori | Search Engine

PHP-based search engine with webmaster tools

- Engineered core search functionality using custom ranking algorithms to prioritize relevant query results.
- Developed automated web crawlers and spiders to traverse, collect, and index external web content.
- Built the webmaster user interface and a secure domain verification system to authenticate site ownership.
- Integrated third-party REST APIs (Pixabay, YouTube, NewsAPI) to accelerate feature development and aggregate multimedia content.

Tech: PHP, MySQL, JavaScript, REST APIs

WORK EXPERIENCE

Backend Developer Intern | Teerthanker Mahaveer University, Moradabad

Apr 2026 - June 2026

- Shipped dynamic CMS features across 4+ production Laravel applications, building reusable components, a permissions-based super admin panel, and a notices management module with PDF upload support.

- Automated llm.txt generation via Python, synced to the database and triggered instantly on article publish or update.
- Architected a multi-PDF management system with a dedicated relational table, supporting upload, versioning, and mobile download across editor and journal dashboards.
- Set up cross-server SSH backup pipeline using rclone and built a cron job to sync invoice data with Tally accounting software.

Full-Stack Web Developer (Freelance) | Remote

Nov 2021 - Feb 2023

- Built and deployed custom web applications using JavaScript, PHP, and MySQL
- Created REST APIs and handled backend logic for data-driven features and workflows
- Worked closely with clients to understand requirements and deliver projects on time

EDUCATION

B.Tech Computer Science and Engineering | 2023 - 2027

Teerthanker Mahaveer University

- **Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks.

HONORS & ACHIEVEMENTS

- **Public Speaking:** 2nd Runner-up in Inter-School Model United Nations (MUN) debate.
- **Cybersecurity Enthusiast:** Actively pursuing the OSCP (Offensive Security Certified Professional) learning path.

INTERESTS

• Backend systems • Mobile development • Cybersecurity • Real-time architectures • Humanitarian volunteering • Tech for good