

OSAMA RAHMANI

Software Engineer | Full-Stack Developer

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SUMMARY

Software Engineer and Full-Stack Developer with **1+ year of professional experience** building production web applications, educational platforms, dashboards, REST APIs, and system integrations. Experienced with **React, TypeScript, JavaScript, Node.js, Python, PostgreSQL, and REST APIs**, with additional experience in Odoo, Docker, Linux, cloud deployment, and AI/ML. Technical Mentor with experience delivering technology training to **5,000+ students**.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML5, CSS3

Frontend: React.js, Vite, Tailwind CSS, Responsive Web Design

Backend: Node.js, Express.js, Python, REST APIs

Databases: PostgreSQL, MongoDB

Integration: Odoo, Authentication, SSO, API Integration, iframe/PostMessage

DevOps & Tools: Git, GitHub, Docker, Linux, AWS, Nginx, VS Code

AI/ML: TensorFlow, PyTorch, OpenCV, Scikit-learn

EXPERIENCE

Software Developer / Full-Stack Developer — Tarcin Robotic LLP

Sep 2025 – Sep 2026 | Tamil Nadu, India

- **Developed** production web applications using React, JavaScript/TypeScript, Python, PostgreSQL, and REST APIs across education, analytics, and business workflows.
- **Built** reusable React components, responsive interfaces, and API-driven features for web-based learning platforms, covering course modules, assessments, and learner analytics.
- **Integrated** applications with Odoo ERP, PostgreSQL, REST services, authentication workflows, and PostMessage communication.
- **Served** as Technical Mentor, delivering programming and technology training to 5,000+ students through workshops and educational programs.

Freelance Full-Stack Developer

Remote

- **Delivered** full-stack web projects using React, Node.js, and PostgreSQL — from requirements through deployment — while independently managing client communication and timelines.
- **Built** and maintained [type of application, e.g. business dashboards / e-commerce sites] with responsive UI and REST API integrations.

Student Intern — Ministry of Electronics & Information Technology (MeitY)

[July 2024] – [Jan 2025] | India

- **Worked** on computer-vision and ML applications using TensorFlow, OpenCV, MATLAB, FPGA, Verilog, and Vivado, assisting with model tuning, inference pipelines, and hardware-assisted ML deployment.

SELECTED PROJECTS

CHARGE — Educational Learning Platform — React | Vite | Python | PostgreSQL | Odoo

- Developed learning-platform features including structured modules, interactive assessments, learner workflows, and analytics.
- Built reusable React components and integrated frontend applications with backend APIs and PostgreSQL-backed services.

Virtual Nursing Assistant — React | TypeScript | Tailwind CSS | PostgreSQL | REST APIs

[link](#)

- Built a full-stack web application with responsive React interfaces, role-based workflows, REST API integration, and PostgreSQL data
- Used a modular client/server/shared architecture with an ORM-based data layer.

Intern managements System — React | Vite | Node.js | Express.js | PostgreSQL | JWT | Nodemailer

[link](#)

- Developed a full-stack internship management platform with separate workflows for Super Admins, Admins, and Interns
- Integrated email notifications using Nodemailer and Gmail SMTP for application and account-related workflows.
- Integrated AI-assisted task assignment and analysis to help evaluate intern tasks, track progress, and provide task-level insights.

Eye Disease Detection — Python | TensorFlow/Keras | Flask | OpenCV

[link](#)

- Trained a CNN-based eye-condition classifier and integrated model inference into a Flask web application.
- Achieved approximately **85% training accuracy** during model evaluation and deployed the application for web-based inference.

EDUCATION

Mohamed Sathak Engineering College, Tamil Nadu

B.Tech in Information Technology | 2025 | GPA: 8.2/10