PATCHAIYAPPAN K
Full Stack Developer
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Profile

Highly motivated and results-driven Full Stack Developer with strong backend expertise in Python and frontend proficiency using React (JavaScript & TypeScript). Skilled in building scalable applications, designing RESTful APIs, and deploying production-ready solutions. Passionate about building user-centric digital products, optimizing system performance, and collaborating with cross-functional teams.

Experience

Full Stack Developer
DGi WORX, Chennai
July 2025 – Present
Key Projects:

- **Credo Star – Online Course Platform:** Developed a scalable web platform using **React (TypeScript)** with **Vite** for fast builds and optimized performance, integrated with Material UI for a seamless UI/UX. Implemented authentication, course enrollment flows, and user dashboards, with backend APIs built in Python FastAPI and PostgreSQL.
- **FarmGro-Eco-Trails – Village-based Agri-Tourism Platform:** Built the public-facing site and booking interfaces using HTML, CSS, and JavaScript, focusing on responsive layouts, offline-friendly pages for rural connectivity, simple booking flows, and showcasing local produce and itineraries. Backend services were developed in Python FastAPI with PostgreSQL.
- **API Development & Integration:** Built high-performance APIs using Python FastAPI for backend communication, integrated with PostgreSQL.
- **Authentication & Course Management:** Implemented secure login, user enrollment flows, and dashboard components.

Junior Software Developer
Promethean Software Solutions, Pondicherry
December 2023 – June 2025
Key Projects:

- **Medshyne – Organization Onboarding:** Developed onboarding UI using ReactJs and integrated backend APIs with NodeJs + MySQL.
- **Medshyne – Doctor App & HCR App:** Created role-specific applications for doctors and healthcare reps, focusing on authentication, scheduling, and secure data access.
- **Medshyne – Super Admin Panel:** Built a responsive admin dashboard with ReactJs + Bootstrap for managing healthcare organizations.
- **East Coast Hospital – Dialysis Module:** Developed patient scheduling and monitoring features in ReactJs, optimized for real-time data updates.
- **Office Website Enhancement:** Enhanced performance and accessibility of company's React-based website for better SEO and UX.

Technical Skills

- **Frontend:** React (JavaScript & TypeScript), HTML5, CSS3, Bootstrap, Material-UI, Axios
- **Backend:** Node.js, Express.js, Python (FastAPI), MySQL, PostgreSQL, MongoDB
- **Tools & Platforms:** Git, Postman, Visual Studio Code
- **Others:** RESTful APIs, API Integration, Testing & Debugging, Agile Collaboration

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Certifications

Front-End Development Certification

Greens Technology, Chennai | June 2023 – October 2023

- Hands-on training in HTML, CSS, JavaScript, React, and real-time project experience.

Education

B.Tech – Electrical and Electronics Engineering

Christ College of Engineering & Technology, Pondicherry University

2017 – 2021 | CGPA: 7.89

- **Project:** Piezoelectric Energy Harvesting – Generated 5W power from vibrations; improved conversion efficiency by 12%.
- **Internship:** Supreme & Co. Pvt Ltd, Kolkata – Contributed to power transmission manufacturing processes and quality testing.

HSC – State Board of Tamil Nadu

Jothi Vallalar Higher Secondary School | 2016 – 2017 | 55%

SSLC – State Board of Tamil Nadu

Kolping Matriculation Higher Secondary School | 2014 – 2015 | 74%