

PRANAV K

Full Stack MERN Developer | Skilled in React.js, Node.js, MongoDB & Scalable Web Application Development

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Full Stack MERN Developer with proven expertise in designing, developing, and deploying scalable web applications. Proficient in MongoDB, Express.js, React.js, and Node.js, with strong command over front-end and back-end development, RESTful API integration, and database management. Skilled in modern technologies including TypeScript, Redux, Docker, Kubernetes, and Firebase, with practical experience in implementing secure authentication (OAuth, RBAC), microservices architecture, and responsive UI design. Demonstrated success in delivering client projects, freelancing solutions, and community-driven platforms, ensuring performance optimization, code quality, and seamless user experience. Recognized for translating business requirements into innovative technical solutions while fostering collaboration, innovation, and continuous improvement.

CORE COMPETENCIES

- Full Stack Web Development (MERN)
- Front-End Development (React.js, Redux, HTML, CSS, Bootstrap)
- Back-End Development (Node.js, Express.js, Django)
- Database Design & Management (MongoDB, PostgreSQL)
- RESTful API Development & Integration
- TypeScript & JavaScript Programming
- Responsive UI/UX Design & Implementation
- Authentication & Security (OAuth, RBAC)
- Microservices Architecture
- Containerization & Deployment (Docker, Kubernetes)
- Version Control & Collaboration (Git, GitHub)
- Cloud & Backend Services (Firebase, WebRTC)
- Performance Optimization & Debugging
- Data Structures & Algorithms

WORK EXPERIENCE

Parinaamaa.Ai Pvt Ltd – Kadavanthra, Kochi, Kerala, India

Mar 2026 - Present

Developer - On Site

Kerala State It Mission – Thiruvananthapuram, Kerala, India

Sept 2025 - Mar 2026

Graduate Software Developer Intern - On Site

- Developed an in-house Aadhaar eSign-based document signing platform integrated with C-DAC eSign services.
- Designed and implemented data models for a government email ID provisioning system for public officials.
- Built backend services and workflows to support secure document processing and digital verification.
- Collaborated with internal teams to ensure secure integration with government infrastructure and compliance requirements.

Cofount Labs – Kozhikode, India

Oct 2024 – Sept 2025

Backend Developer - On Site

- Designed, developed, and deployed multiple web applications tailored to client needs using the MERN stack.
- Delivered end-to-end technical solutions for startups and established businesses, ensuring high performance and scalability.
- Conducted comprehensive testing, debugging, and performance tuning, ensuring high-quality deliverables with minimal downtime and optimized performance.
- Integrated payment systems, authentication modules, and database solutions to support business workflows.
- Managed client communications, project requirements, and technical delivery to achieve customer satisfaction.

Brototype – Payyannur, India

Aug 2023 – Oct 2024

Intern - Remote

- Contributed to the development of full-stack web applications using the MERN stack, ensuring scalability, maintainability, and efficiency in real-world projects.
- Assisted senior developers in designing modular and reusable codebases that improved development speed and reduced errors.
- Actively participated in peer code reviews to identify bugs, suggest improvements, and uphold coding standards.
- Debugged, optimized, and enhanced application performance, resulting in smoother user interactions and reduced load times.
- Collaborated closely with team members in an agile environment, consistently meeting project timelines and delivering high-quality solutions.

EDUCATION

B.Tech in Computer Science

Jul 2019 – Jan 2023

Jyothi Engineering College | Cheruthuruthy, India

PROJECTS

Decidr — Backend for Mobile App

Jun 2025 – Present

- TypeScript, Node.js (Hono), Zod, PostgreSQL | GitHub Repository
- Developed a TypeScript + Hono backend API for a mobile app, powering real-time decision evaluation, feature gating, and adaptive personalization.
 - Designed and implemented RESTful endpoints optimized for low-latency mobile usage.
 - Built secure token-based authentication and multi-tenant authorization middleware.
 - Structured decision/rule models with validation, versioning, and serialization for rapid extensibility.
 - Optimized backend architecture for cold start reduction and edge-friendly performance.

Zrato Learning Platform (E-learning Web Application)

Feb 2025 – Jun 2025

- Next.js 15, React 19, TypeScript, Prisma, PostgreSQL, Tailwind CSS, Cloudflare R2, Vite, Bun
- Contributed to a modern full-stack e-learning platform enabling video lessons, quizzes, assignments, analytics, and user assistance workflows.
 - Engineered learner analytics dashboards (progress charts, score gauges, topic completion metrics).
 - Designed and implemented assistance request workflow with data model, migrations, and UI.
 - Enhanced quiz, assignment, onboarding, and topic progression flows with access guards.
 - Built video progress persistence and resource downloads for learning continuity.
 - Refactored schema and Prisma usage, adding seeding/migration workflows for fast iteration.

Dr. Dhruva's Learning Management System (LMS)

Nov 2024 – Jan 2025

- Next.js 15, React 19, TypeScript, Prisma, PostgreSQL, Tailwind CSS, Docker, Bun
- Developed a medical e-learning platform offering structured courses in cardiac care, anaesthesiology, and intensive care.
 - Architected a modular Next.js App Router codebase with separated auth, onboarding, and content flows.
 - Implemented secure authentication & authorization with protected routes.
 - Built course catalog, video delivery, and learner progress tracking features.
 - Created interactive quizzes, certificate workflows, and student dashboard for engagement.
 - Containerized PostgreSQL + Prisma ORM with migrations and cron jobs for maintenance.

genexp (Express Boilerplate Generator)

Aug 2024

- Node.js, TypeScript | GitHub Repository
- Created a CLI-based Express.js boilerplate generator that streamlines the development of MVC-structured applications with straightforward commands (e.g., `npx genexp`).
 - Implemented compatibility for both JavaScript and TypeScript, offering options for ES modules or CommonJS systems.
 - Designed the tool to automatically configure essential libraries, including EJS for templating, Morgan for logging, and `tsconfig.json` for TypeScript environments.
 - Developed a flexible project structure that separates controllers, models, and views, promoting best practices in backend architecture.

SoleStride

Year 2023 – 2024

- Node.js, Express.js, MongoDB, EJS, Razorpay | GitHub Repository
- Developed a full-stack e-commerce platform specializing in footwear, integrating front-end and back-end for seamless operations.
 - Designed and implemented secure OAuth-based authentication, protecting user data and transactions.
 - Integrated Razorpay payment gateway for reliable and secure online payment processing.
 - Built dynamic cart management and order tracking systems to enhance customer engagement and experience.
 - Optimized backend architecture for improved performance, scalability, and load handling capacity.

Signfy

Year 2021 – 2023

- HTML, CSS, Bootstrap, TensorFlow.js, WebRTC, Firebase | GitHub Repository
- Designed and developed a video chat platform specifically tailored for hearing-impaired users to improve accessibility.
 - Integrated TensorFlow.js for real-time sign language detection, enabling effective communication through AI-based gesture recognition.
 - Implemented WebRTC for seamless peer-to-peer video calling and Firebase for real-time data synchronization.
 - Enhanced overall application performance by applying responsive design principles and optimizing UI/UX for diverse devices.

Python, Django, HTML, CSS, Bootstrap | GitHub Repository

- Architected and deployed a robust backend system using Django to streamline event planning and management for college activities.
- Implemented Role-Based Access Control (RBAC) to ensure secure user authentication and role-specific access rights.
- Built CRUD functionalities to allow dynamic content management by administrators and event organizers.
- Designed a responsive and user-friendly frontend with HTML, CSS, and Bootstrap, ensuring ease of use across devices.

VOLUNTEERING EXPERIENCE

Unicorn Dev Community, Cheruthuruthy, India

Co-Founder | April 2022 – January 2023

- Supported community-led events and hackathons, including volunteering at the AREA 51 state-level hackathon conducted during Tharang 22 at Jyothi Engineering College, assisting participants and event facilitation.
- Co-founded and led a technology-driven community dedicated to fostering developer collaboration, innovation, and continuous learning.
- Organized large-scale events, technical workshops, and hackathons that attracted participants across institutions and encouraged peer-to-peer knowledge exchange.
- Designed, developed, and maintained the community’s official website and digital tools using React.js and Node.js to streamline event management and communication.
- Provided mentorship and guidance to community members, helping them enhance their technical expertise in modern web development and software engineering practices.
- Partnered with colleges and local organizations to host collaborative initiatives, strengthening industry-academia engagement and building a strong developer ecosystem.

Computer Society of India, Cheruthuruthy, India

Member | July 2022

- Participated in professional development programs, technical forums, and knowledge-sharing sessions to stay updated with industry trends.

CESA (Computer Engineering Students Association), Cheruthuruthy, India

Executive Committee Member | August 2019 – August 2020

- Contributed to organizing departmental activities, technical workshops, and student engagement initiatives, while supporting collaboration between students and faculty.

SOFT SKILLS

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| <ul style="list-style-type: none">• Problem-Solving & Critical Thinking• Communication & Collaboration• Adaptability & Quick Learning• Time Management & Multitasking• Leadership & Team Coordination | <ul style="list-style-type: none">• Creativity & Innovation• Attention to Detail• Analytical Thinking• Decision-Making under Pressure• Interpersonal Skills & Networking |
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