

PRATHIK SHETTY

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EXPERIENCE

Rakebots

March 2026 -- Present

Associate Software Developer (Full-Stack)

India

- Converted from Software Developer Intern at Minstack Technologies to full-time Associate Software Developer within one month based on performance.
- Developing a NestJS backend with RESTful APIs, CRUD operations, and a dual-strategy authentication system supporting password and OTP-based login using JWT.
- Implementing real-time communication features using WebSockets to enable live interactions.

Independent

Oct 2024 -- Feb 2026

Independent Software Developer

India

- Designed and developed two full-stack applications, including an internal operations management system and a web-based API testing tool.
- Strengthened core computer science fundamentals, including data structures, algorithms, and system design.

Notespace

Dec 2023 -- Sep 2024

Software Engineer - Full Stack

Tokyo, Japan

- Developed full-stack features using React, TypeScript, Chakra UI, NestJS and MySQL for high-performance web applications.
- Improved Lighthouse performance score from 65 to 92 through code-splitting, caching, and UI optimisations, increasing user retention by 15%.
- Designed and implemented REST APIs with role-based authentication, validation pipelines, and optimised SQL queries.
- Collaborated with designers and cross-functional teams in Japan, translating requirements into scalable engineering solutions.

Kakunje Software Pvt. Ltd.

Feb 2023 -- Apr 2023

Software Developer Intern

Mangalore, India

- Developed modules for a production web platform using PHP, MySQL, JavaScript, HTML/CSS, and Bootstrap.
- Implemented database schemas, CRUD functionality, session management, and admin workflows.
- Enhanced user experience through AJAX and jQuery for smoother client-server interactions.

TECHNICAL SKILLS

Frontend: Next.js, React, TypeScript, JavaScript, Chakra UI, TailwindCSS

Backend: Node.js, NestJS, Express.js, RESTful APIs, JWT Authentication

Databases: MySQL, PostgreSQL, TypeORM

Tools: Git, GitHub, Postman, VS Code

Other: API Validation, Responsive UI Design, GitHub Actions

PROJECTS

Internal Operations Management System (OMS) | *React, TypeScript, NestJS, MySQL, TypeORM*

2025

- Developed a full-stack internal ops platform with role-based access control, JWT authentication, and token refresh.
- Built modular backend services using NestJS with TypeORM and a React frontend with Tailwind CSS.

Request Lab | *React, TypeScript, Vite, Zustand, Dexie, CodeMirror*

2026

- Built a browser-based API client with collections, tabbed request management, and local-first IndexedDB persistence.
- Implemented a JSON body editor with syntax highlighting using CodeMirror and a dynamic headers editor.

Traffic Sign Recognition (IEEE Published) | *Python, YOLOv5, OpenCV*

2023

- Built a real-time sign detection system using YOLOv5, achieving 97.9% validation accuracy.
- Integrated text-to-speech alerts for accessibility, published findings in IEEE Xplore.

EDUCATION

Visvesvaraya Technological University

Bachelor of Engineering in Information Science

2019 -- 2023

Mangalore, India

ACHIEVEMENTS & CERTIFICATIONS

- Published research paper in IEEE Xplore (DISCOVER 2023).
- Completed 300-hour Japanese language training (N4–N3 equivalent).
- Completed courses: JavaScript (Udemy), Python Programming, IT & Cybersecurity.