

Pavan Rasal

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Experience

Coding Jr (Backend Developer Intern) | [Link](#)

December 2024 – February 2025

Tech Stack: Express.js | MySQL | Redis | Swagger UI | AWS | Next.js | Judge0 | Tailwind

Maharashtra, India

- Merged two separate platforms (GU and niilm) into a single unified system, enhancing platform efficiency.
- Built an automated API documentation system using Swagger UI, cutting developer documentation time by 40% and boosting maintainability.
- Optimized complex MySQL queries and resolved backend issues in an Express.js environment, reducing API response times by 30%.
- Developed a PPT generation feature to enable automated creation of presentations based on user inputs and data; also contributed to frontend features using Next.js to improve user experience.

The Skill Guru (Full Stack Intern) | [Link](#)

September 2024 – December 2024

Tech Stack: Node.js | Express.js | MongoDB | React.js | ZegoCloud

Maharashtra, India

- Migrated the website's authentication system from Clerk to a custom solution using JWT and OAuth, improving security and control over user access.
- Integrated voice and video calling features using ZegoCloud, enabling real-time communication between students and mentors and improving overall engagement.
- Built a student dashboard frontend and integrated backend APIs to ensure smooth and responsive user experience.

Personal Projects

Penny Tracker | [Link](#)

Tech Stack: Node.js | Redis | ReactJS | Firebase | Express.js | Tailwind | AWS | Java

- Developed a full-stack finance tracker with mobile and web support to automatically extract and analyze spending data from SMS messages.
- Built an end-to-end system to scrape SMS messages and generate daily, monthly, and yearly spending reports with features like tracking expense, categorized summaries, and budget alerts.
- Integrated a smart chatbot using TF-IDF and cosine similarity to answer finance-related queries and provide personalized insights.
- Secured data using AES-256 encryption, deployed on AWS EC2, and optimized performance with Redis caching, achieving up to 200x faster response times.

Snap Deploy | [Link](#)

Tech Stack: React.js | Node.js | MongoDB | ClickHouse | Express.js | Kafka | AWS

- Built a platform that lets users deploy frontend applications effortlessly, with GitHub OAuth integration to support both public and private repositories.
- Set up a scalable build server using AWS ECS and ECR, designed to handle high traffic and large volumes of concurrent builds.
- Used Amazon S3 to store and serve user websites, and integrated Kafka with ClickHouse to stream and store real-time build logs efficiently
- Reverse proxy system using http-proxy to serve user websites on unique subdomains.

Technical Skills

Web Development: JavaScript, React.js, Node.js, Express.js, HTML, CSS, MongoDB, MySQL, Firebase, Redis, Golang

Devops Skills: AWS, Docker, Jenkins, Linux

Certificate & Achievements

- Winners of the VNPS 2025 National Level Product Showcase [Link](#)
- AWS Certificate of Completion – Job Roles in the Cloud [Link](#)
- Core Member – Hackathon Committee, Web Development Lead

Education

Vidyavardhini's College of Engineering and Technology

Bachelor of Science in Information Technology (B.E IT)

CGPA: 8.8/10

Aug 2022 – Present

Vasai, Maharashtra