Pavan Rasal

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Technical Skills

Programming Languages: Java, JavaScript, C++, C
Web Development: React.js, Node.js, Express.js, HTML, CSS, MongoDB, MySQL, Firebase, Redis, Golang
Devops Skills: AWS, Docker, Jenkins, Kubernetes, Linux

Experience

Coding Jr | Link   December **2024 – February 2025**
Web Development Intern   *Maharashtra, India*

- Engineered scalable backend APIs using **Go (Golang)**, improving system performance and supporting **10,000+ concurrent users** on a real-time student-mentor platform.
- Optimized complex **MySQL queries**, reducing API response times by **40%** and enhancing database performance under high load.
- Contributed to frontend components to streamline user experience, working with the team to boost overall platform usability.
- Built automated and interactive **API documentation** using **Swagger UI**, improving developer onboarding speed by **30%**.

The Skill Guru Foundation | Link   **September 2024 – December 2024**
Backend Development Intern   *Maharashtra, India*

- Contributed to the development of a web platform enabling real-time communication between students and mentors.
- Designed an **inquiry interface handling 120 daily student questions,** boosting mentor-mentee interaction through shared visibility of peer answers.
- Integrated voice and video calling, boosting direct **communication efficiency by 40%**.
- Developed intuitive UI/UX for the web platform, increasing **user satisfaction (measured by surveys) by 20%** and resulting in the tool now being **used by over 200 mentors**.

Personal Projects

PennyTracker | Link   **October 2024 – Present**

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

- Engineered a financial tracking tool to automate expense management by categorizing spending from user messages, eliminating manual input.
- Secured over 10,000 spending records using Firebase, ensuring database scalability and reliability**.**
- Deployed on AWS EC2 with **99.9% uptime**; leveraged Redis caching to accelerate **response times by 35%**.
- Introduced a one-click download feature for spending reports, **empowering 500+ users to improve financial planning**.
- **Test Credentials:** *Email: sritest@gmail.com | Password: 123456*

BrowseAndBuy | Link   **July 2024 – October 2024**

Tech Stack: ReactJS | Node.js | MongoDB | Socket.io / Express / Tailwind

- Developed a platform **connecting 50+ first-year students** and seniors to buy and sell books.
- Facilitated over **30 successful item listings** in the first month by enabling seamless posting by seniors.
- Implemented a real-time chat feature, managing **100+ active conversations daily**.
- Optimized backend performance with Redis caching**, reducing response times by 30%** and enhancing **scalability to support 1,000+ users**.

Certificate

AWS | Link   **December 2024**

- Designed a scalable application on AWS, streamlining deployment and **reducing deployment times by 40%**.
- Utilized AWS services like EC2, S3, and Lambda to **optimize performance for 500+ concurrent users**.

Education

Vidyavardhini's College of Engineering and Technology   **Aug 2022 – Present**
Bachelor of Science in Information Technology (B.E IT)   *Vasai, Maharashtra*
CGPA: 9.10/10