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
Devops Skills: AWS, Docker, Jenkins, Kubernetes, Linux

Experience

The Skill Guru Foundation | **Link**   **August 2024 – October2024**
Web Development Intern   *Maharashtra, India*
- Created an interactive platform that **connects over 500 students with mentors**, enabling real-time query resolution and support.
- 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%**.
- Collaborated with a team of 4 developers to streamline user experience, **driving a 25% increase in platform engagement**.

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 200+ 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**.

Pathfinding Visualizer   **June 2024 – July 2024**

Tech Stack: Html / JavaScript / Css / React / Firebase / Tailwind
- Enhanced A* and Dijkstra algorithms, **reducing computational time by 25%** and accelerating pathfinding tasks on large grids.
- Redesigned the interface for a more intuitive user experience, **achieving a 40% increase in user engagement**.
- Supported **visualization of 100x100 grids**, processing 10,000+ pathfinding calculations with efficiency.

Certificate

AWS Innovate | **Link**   **October 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