

Rachana Vannala

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PROFESSIONAL EXPERIENCE

University of Cincinnati

Jan 2024 - Dec 2024

Software Support Engineer

- Built responsive and user-friendly interfaces using React and TypeScript, resulting in a 30% increase in user engagement during account management tasks and service booking processes.
- Revolutionized backend connectivity through precise development of RESTful APIs via Spring Boot alongside Node.js frameworks; delivered consistent improvements leading to a noticeable decrease in application load times by 20%.
- Spearheaded the engineering and refinement of APIs with Spring Boot and Node.js, driving a 25% increase in operational efficiency by streamlining communication flows during peak service hours.
- Streamlined Jenkins CI/CD pipeline configurations for seamless automation of deployment procedures; achieved an impressive reduction of 30 hours each month in resource-intensive manual updates.

AccelTree Software

Jan 2022 - Jun 2023

Full Stack Developer

- Developed and maintained front-end components using HTML, CSS, JavaScript, and React/Angular, achieving a 25% reduction in page load time and improving user satisfaction scores.
- Optimized server-side applications using Node.js, achieving a 30% increase in response times and enhancing system capacity to manage over 100,000 daily requests without performance degradation.
- Enhanced backend efficiency through strategic implementation of RESTful API connections alongside external systems, boosting functionality, and reducing data retrieval times by 35% to improve user experience.
- Engaged and collaborated in code reviews and architectural discussions, achieving a 15% improvement in code quality and adherence to best practices.

Let's Grow More

Jul 2021 - Dec 2021

Full Stack Developer Intern

- Created a responsive web application utilizing performance optimization strategies that led to a 30% decrease in load times, ensuring seamless user interface functionality across all devices and platforms.

The Sparks Foundation

Jan 2021 - Jun 2021

Web Developer Intern

- Designed a secure payment gateway integrated web application that streamlined transaction processing, cutting payment time by 50%, resulting in greater operational efficiency and an elevated user satisfaction level.

EDUCATION

University of Cincinnati, Cincinnati, Ohio

Dec 2024

Master of Science in Information Technology - 4.00 GPA

TECHNICAL SKILLS

Coding Languages: Python, Java, Kotlin, C++, C, C#, Go, R

Methodologies: SDLC, Agile/ Scrum, Waterfall

Web Development: HTML, CSS, JavaScript, TypeScript, PHP, React.js, Node.js, AngularJS, jQuery, ASP.NET, MySQL, Spring Boot, API's

Databases: PostgreSQL, MySQL, MongoDB, Cloud SQL (GCP)

Frameworks: Django, PyTorch, Flask, React Native

Cloud: AWS, GCP

Tools: Tableau, Power BI, Advanced Excel, Visual Studio, Jupyter Notebook.

Version Control: Git, GitHub

PROJECTS

AI-Powered Web Application for FAQ's Management

- Implemented an innovative AI-powered chatbot capable of addressing 150+ FAQs while processing text and image inquiries, playing a key role in driving discussions that resulted in a significant decrease in response time.
- The chatbot decreased customer issues by 40% and raised customer satisfaction by delivering quick and accurate responses to inquiries.

E-Test Platform

- Engineered an online examination platform that facilitated user navigation for over 2,000 test takers and reduced administrative errors throughout the testing process.
- Established secure authentication protocols that reduced unauthorized access attempts by over 70%, ensuring data integrity while elevating overall trust among users interacting with the platform.

PUBLICATIONS & ACHIEVEMENTS

Graphical Authentication System using Image Panels – [IJRITCC](#)

Dec 2023

AI Chatbot for answering FAQ's – [IEEE](#)

Oct 2022

Smart India Hackathon

Aug 2022

Comparative Analysis of Data Decryption Techniques – [POSITIF](#)

Jul 2022

Artificial Intelligence involvement in predicting the heart disease in databases – [POSITIF](#)

Jul 2022

UIDAI Aadhar Hackathon

Nov 2021