

VEENA RAGI

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Career Objective

Full Stack Developer skilled in designing and developing secure, scalable, and responsive web applications using **React.js, Node.js, MySQL, and Azure**. Passionate about delivering optimized solutions and eager to contribute to innovative products while continuously enhancing my technical expertise.

Skills and Abilities

- Frontend: React.js, React Hooks (useState, useEffect, useContext), CSS3, HTML5.
- Backend: Node.js, Express.js.
- Database: MySQL.
- Cloud & DevOps: Azure(Key Vault, Blob Storage), GitHub Actions (CI/CD), Azure Static Web Apps.

Professional Experience

Full Stack Developer, eGRADTutor (March 2024 – Present)

An educational institute offering online coaching for JEE Mains, Advanced, BITSAT, and GATE exams.

Project 1: UG & PG Online Test Series (OTS)

- Contributed to the development of **Admin and Student Dashboards** served across multiple institute URLs.
- Integrated Azure Key Vault in Node.js application to securely fetch and manage secrets (payment gateway keys), improving security and maintainability.
- Built a **multi-tenant architecture** where the same application serves multiple institutes, identified via their **custom domain names**.
- Designed and implemented logic to identify institutes based on domain name and fetch instituteId, enabling **institute-specific exam and user data**.
- Implemented **React Quill** editor for admins to add exam instructions.
- Added upload format validation to support efficient bulk-question insertion into the database.
- Project Links: [eGRADTutorPG](#), [eGRADTutorUG](#)

Project 2: GATE PG Online Test Series (OTS)

- Led a team of 3 members to implement a dynamic optional departments section replicating the GATE interface.
- Enabled admins to create tests with or without optional sections.

- Developed resume feature for users to continue tests from where they left off.
- Built a fully functional scientific calculator using regex for accurate parsing, matching GATE official standards.
- Project Link: [eGRADTutor](#)

Project 2: BITSAT Online Test Series Optimization

- Refactored test interface code to fix memory leaks and functionality issues.
- Reduced CPU usage from 40% to 10% during Azure testing.
- Improved overall system performance and user experience.
- Contributed to the development of Admin Dashboard for managing exams, courses, and tests.
- Customized APIs and ensured responsive form design across devices.
- Worked on Themes project where Admin can change the Theme which will be reflected in the website (created 5-6 themes) by maintaining responsiveness throughout all the devices.

Project 3: GATE Static Website & Practice Quiz

- Designed and implemented responsive CSS under a strict 2-day deadline.
- Created admin panel to store the students' credentials (TSV file with auto generated passwords) in Azure table storage, download the login credentials, scores.
- Developed a Practice Quiz page with instant answer validation.
- Uploaded quiz data to Azure Blob Storage and implemented dynamic fetching.

Certifications

- Certified in Employability Skills by Mahendra Pride. Recognized as second highest performer.
- Java Full Stack Certification, VCube Software Solutions, Hyderabad.

Personal Projects

- Tic-Tac-Toe Game – Developed with React with CI/CD automation through GitHub Actions.
Link: [Tic-tac-toe](#)
- Portfolio Website – Built using HTML, CSS, JavaScript, and React.
Link: [Portfolio React](#)

Education

- M.Sc Computer Science, Osmania University, Hyderabad.
- Bachelor of Science, NSV Degree College, Jagtial.
- Intermediate, SV Junior College, Jagtial.