

Pratap Chandra Deo

Warangal, Telangana | 9937975507 | [website](#) | pratapchandradeo@gmail.com | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

A results-driven Software Engineer with 3+ years of experience in full-stack development, specializing in scalable web applications and secure API design. Proficient in JavaScript, Node.js, React.js, and database management, with hands-on experience in AWS/Azure environments. Skilled in agile development, technical documentation, and delivering user-centric solutions in high-performance settings.

EDUCATION

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|-------------------------|---|--------------------------------|
| BIJU PATNAIK UNIVERSITY | Master of Computer Application — CGPA: 8.1 | November 2020 – September 2022 |
| UTKAL UNIVERSITY | Bachelor's in Computer Application — CGPA: 7.2 | August 2017 – November 2020 |

TECHNICAL SKILLS

Programming and Markup Languages: Java, Python3, JavaScript, HTML, CSS
Libraries and Frameworks: React, Spring Boot, Bootstrap, Hibernate, jQuery
DevOps and API Tools: Git, GitHub, Docker, Swagger, Postman, Firebase, JIRA, Confluence, CI/CD Pipelines
Cloud Platforms: AWS, Azure, Netlify, Railway
Testing and Debugging: Unit Testing, Integration Testing
Databases: PostgreSQL, MySQL, MongoDB
Other Skills: JSON (data formatting), Cross-platform development, Flow-charts/UML diagrams, Windows, Linux

EXPERIENCE

Junior Programmer | NITW *Aug 2024 – Present*

- Working on the ERP system of the institute, focusing on an internal application called "Simple," which is utilized for managing various tasks within the institute.
- Responsible for developing new modules to expand the application's functionality, ensuring they align with the institution's operational needs.
- Regularly update and enhance existing modules based on user feedback and evolving requirements to improve system efficiency and performance.
- Collaborating closely with various departments to gather requirements and deliver solutions that streamline institutional processes.

Full Stack Developer | Mechanetics Solutions Pvt. Ltd. *Feb 2022 – Jul 2024*

- Crafted dynamic, user-centric web applications utilizing React for front-end and Java for back-end, enhancing user experience and functionality.
- Played a key role in creating and maintaining several websites, improving the functionality and enhancing user experience across projects.
- Contributed to the development of key projects such as the BMC Garbage Management System and JSW Load Management.

PROJECTS

Smile - ERP System Application

- Contributed to the development and enhancement of the internal ERP application, **Simple**, which is used to manage various administrative tasks across the institute.

Responsibilities:

- Developed new modules to extend the application's functionality, ensuring they meet the specific operational needs of different departments.
- Regularly updated and improved existing modules based on user feedback and evolving requirements, enhancing system efficiency and performance.
- Collaborated with various teams to gather requirements, analyze workflows, and deliver tailored solutions that streamlined institutional processes, resulting in more efficient task management within the institute.

Tech Stack Used:

- Java, jQuery, PostgreSQL, AJAX, Hibernate

NITW Website Development

- Developed and currently managing the back-end, front-end, and admin panel for NITW's official website and associated applications, ensuring seamless user experience and operational efficiency.

Responsibilities:

- Spearheaded the design and development of three applications: one backend (Node.js) and two frontend applications (React), ensuring robust architecture and efficient workflows.
- Successfully managed the upgrade of the entire tech stack from Node.js 16 to Node.js 22.12 (LTS), resolving compatibility issues and enhancing performance.
- Designed and developed the admin panel, enabling efficient management of website content, user access, and other administrative functionalities.
- Collaborated with stakeholders to gather and analyze requirements, tailoring solutions to meet specific needs for both user-facing and administrative components.
- Implemented secure authentication and authorization protocols to ensure data protection and prevent unauthorized access across all applications.
- Conducted performance optimization and troubleshooting, resolving issues related to security, scalability, and functionality.
- Upgraded dependencies and ensured compatibility with modern frameworks and libraries, including React and related tools.
- Engaged with end-users to gather feedback, incorporating changes to improve user experience and meet evolving requirements.
- Documented all APIs and application features, enabling streamlined development, integration, and future scalability.

Tech Stack Used:

- JavaScript, Node.js (v22.12 LTS), React.js, Express.js, MongoDB, Git

Recruitment Portal - NIT Warangal

- Designed and developed a comprehensive Recruitment Portal to streamline faculty and staff recruitment processes, managing both the back-end and front-end for seamless operation.

Responsibilities:

- Spearheaded the design and development of the portal using **Python (Django)**, **PostgreSQL**, **HTML**, and **Crispy Forms**, creating a robust and scalable architecture.
- Built dynamic forms to capture faculty and staff applications, ensuring data validation and a user-friendly interface.
- Developed secure back-end modules to process and store applicant data efficiently in PostgreSQL, enabling smooth data management.
- Implemented role-based access controls and authentication mechanisms to safeguard sensitive recruitment data.
- Integrated admin functionalities for HR/administrators to review, filter, and manage applications seamlessly.
- Collaborated with stakeholders to understand requirements and iteratively improved the application based on feedback.
- Ensured responsive UI and optimized queries for better performance and scalability.
- Documented APIs, workflows, and database structures to support future enhancements and integrations.

Tech Stack Used:

- Python3, Django, PostgreSQL, HTML, Crispy Forms, Git