Ranjan Kumar Pandit

Information Technology

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EDUCATION

•**RGIPT, Jais** — *July 2022 - Present*
B.Tech in Information Technology — CGPA: 9.22

EXPERIENCE

•**Web Development Intern** — *July 2024 - Sept 2024*
Industrial Intern — CoderOne, India (Remote)
- Constructed a **Online Learning Platform** using Node.js, Express.js, and MongoDB, managing 1,500+ courses and 2000+ active users.
- Incorporated notifications and discussion channels, boosting student interaction by 30% and increasing daily active users by 25%.
- Crafted portal components, reducing enrollment drop-off by 20% through user-friendly navigation and features.
- Enabled secure authentication and optimized queries, boosting API response by 40%.

PROJECTS

•**Digital Dining Restaurant Website** — *Jan. 2024 - Present*
Full-Stack Development Project — Github
- Designed an interactive restaurant website employing HTML, CSS, JavaScript, EJS, Node.js, Express.js, and MongoDB; the site's mobile optimization led to a 50% reduction in bounce rates during peak dining hours.
- Implemented user authentication features, including login and registration.
- Included a subscription management feature that streamlined user on boarding and subscription renewals; functionality decreased user churn by 15% and enhanced retention rates through automated reminder notifications.
- Engineered a responsive UI with EJS for dynamic rendering and MongoDB for efficient data storage.
- Connected a chatbot to assist customers with queries, process orders, and provide detailed information about the restaurant.

•**Crop Disease Prediction System** — *Sept. 2024 - Present*
Web Development, Machine Learning, and Chatbot Integration Project — Github
- Devised an innovative AI model for plant disease detection capable of achieving 95% accuracy on test datasets; blended user-friendly interface with Flask, enhancing accessibility for agricultural specialists and researchers.
- Integrated a chatbot to process text and images, offering medical insights and tailored treatment recommendations using OpenAI's GPT-4 API.
- Deployed, fine-tuned, and trained a TensorFlow Hub model on an 80K+ dataset for plant disease classification.
- Developed a responsive chat interface with image uploads using HTML, CSS, JS, Pillow, and requests.
- Utilized Twilio's WhatsApp API to enable image uploads and facilitate chatbot interactions for health analysis and personalized care guidance.

•**Interview Experience Submission** — *Jan. 2025 - Jan. 2025*
Full-Stack Development Project — Github
- Built a responsive web application using React.js, Node.js, and MongoDB to manage interview submissions.
- Secured 500+ submissions with JWT authentication and implemented user-specific access controls.
- Created and tested RESTful APIs achieving 95% test coverage, supporting submission creation, retrieval, and pagination for up to 10,000 records.
- Reduced API response time by 30% through optimized database queries.
- Enhanced user experience with session management, search functionality, and detailed error handling.

SKILLS

- **Relevant Coursework**: Data Structures, Algorithms Analysis, Database Management, Web Technology, Systems Programming, Computer Architecture, Discrete Maths, Linear Algebra, P/RP, Operating System, AI/ML
- **Languages**: C++ (Proficient), Python, C, JavaScript, SQL, HTML5, CSS3
- **Frameworks/Libraries**: Tailwind CSS, Bootstrap, React.js, Node.js, Express.js, MongoDB, Flask, TensorFlow
- **Tools**: VS Code, Git/GitHub, MongoDB Compass, Canva, Figma, Linux
- **Soft Skills**: Communication, Team Work, Creativity, Leadership

ACHIEVEMENTS

•**4 Star Rating on GeekForGeeks.**, 1870+ rating
•**Specialist at Code360 By Coding Ninjas**, 1810+ rating
•**Solved 800+ problems at LeetCode and GeeksForGeeks**,
•**Bronze Medal By S.P.**, Awarded Bronze Medal by S.P. for academic excellence, ranking top in the district
•**Received a trophy from the Director of Z.A. Islamia College(Siwan)**, for securing the top rank at Science Academy.

CODING PLATFORMS

• **GeekForGeeks** • **Code360 By Coding Ninjas** • **CodeChef** • **LeetCode** • **InterviewBit**