

Sanjana Balannagari

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Objective:

Motivated and detail-oriented software developer seeking an opportunity to leverage strong programming skills in Java and Python. Passionate about designing efficient, scalable software solutions and eager to contribute to dynamic, collaborative development teams to deliver high-quality applications and innovative technology solutions.

Technical Skills: Python Language, Java, SQL, C Language, HTML, CSS, Javascript (basic), Asp.NET

Certifications:

- AWS cloud computing Issued by Andhra Pradesh state skill development Corporation.
- Introduction to Programming Using Python Issued by Microsoft.
- Introduction to Data Science by Cisco Network Academy.
- AI Fundamentals with IBM SkillsBuild by Cisco Network Academy.
- Introduction to Cybersecurity by Cisco Network Academy.

Education:

Master of Science in Computer Science | Jan 2024 - Current

Governors State University, University Park, Illinois

Bachelor of Technology in Computer Science | Aug 2019 – May 2023

Narayana Engineering College, Nellore, Andhra Pradesh

Professional Experience:

Intern | Irax Tech Private Limited | India | May 2023 – Nov 2023

- Developed a dynamic and responsive web application using HTML, CSS, Bootstrap, JavaScript, and CodeIgniter (PHP framework), delivering a smooth and engaging user experience.
- Designed and implemented modular MVC architecture in CodeIgniter for clean separation of concerns and easier code maintenance.
- Created responsive UI components with Bootstrap and custom CSS, ensuring cross-device compatibility and modern design standards.
- Utilized JavaScript and jQuery to implement dynamic content updates, form validations, and interactive elements.
- Built secure and scalable CRUD functionalities for managing user input, database records, and application workflows.
- Integrated MySQL database with CodeIgniter's Active Record for efficient data querying and relational data management.
- Applied form validation, session handling, and error management to ensure robust functionality and improved user experience.

Projects:

Invoice Management System Using Python | 2024

- Developed an Invoice Management System using Python to automate invoice creation, tracking, and management for small businesses and Utilizing Python- Tkinter for a user-friendly interface allowing users to generate, view, and print invoices.
- Integrated SQLite/MySQL database to store customer details, invoice records, and payment history with proper normalization.
- Implemented CRUD operations (Create, Read, Update, Delete) for invoices and customer data, ensuring data integrity.
- Added features such as automatic invoice numbering, tax and discount calculations, and PDF invoice export using libraries like ReportLab or FPDF.
- Wrote modular, reusable, and well-documented Python code following OOP principles.

Beauty Parlor Appointment System Using Java | 2024

- Designed and developed a Java-based appointment management system for a beauty parlor to streamline client scheduling, service selection and enabling customers to book, modify, and cancel appointments.
- Applied Object-Oriented Programming principles to build a modular and maintainable codebase, separating logic for clients, services, and staff.
- Used CSV files to manage client records, appointment slots, service catalogs, and employee schedules with secure data storage.

Healthcare Management System Using SQL | 2024

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- Developed a Healthcare Management System using SQL to manage patient records, appointments, medical histories, billing, and staff data for a multi-specialty facility.
- Designed and implemented normalized relational database schemas to ensure data consistency, integrity, and efficient storage.
- Created complex SQL queries, joins, views, and stored procedures to automate appointment scheduling, generate reports, and track patient history.
- Applied constraints, indexing, and foreign key relationships to enforce data accuracy and optimize query performance.
- Designed ER and EER diagrams to model real-world healthcare workflows and accurately capture system requirements. Conducted rigorous data validation and testing to ensure accuracy of patient information and reliability of system operations.

Open Table web application Using Asp.NET | 2025

- Designed and implemented a web-based restaurant reservation system inspired by OpenTable using ASP.NET MVC, C#, and SQL Server.
- Created modular web application structure with clearly defined Model-View-Controller separation and multiple layouts for seamless user and admin navigation.
- Developed CRUD functionalities enabling administrators to manage restaurants, users, and metropolitan areas, including form validation and image uploads with proper database migrations and seeded data.
- Built user reservation workflows with dynamic filtering, reservation holding mechanisms, and a shopping-cart style interface for managing pre-reservations.
- Integrated sessions and cookies for persistent storage of user reservations and filtering preferences, maintaining state across navigations and user sessions.
- Implemented custom validations, remote validation for uniqueness checks, client-side and server-side validation, and the Post-Redirect-Get (PRG) pattern to enhance security and user experience.
- Applied Bootstrap styling, Font Awesome icons, JavaScript, and jQuery for responsive, user-friendly interfaces and robust client-side validation.

Mobile app development - Project Management | 2025

- Led the CORE NOVA Mobile App Development project, focusing on delivering a secure, scalable, and user-friendly mobile application with robust backend integration and modern UI/UX.
- Served as Project Manager, overseeing the end-to-end execution of the Basic Mobile App Development (MAD) phase, ensuring timely delivery and adherence to quality standards.
- Managed cross-functional teams, coordinated development efforts, and facilitated communication between stakeholders, designers, and developers.
- Applied project management best practices including cost control, risk mitigation, change management, and milestone tracking to drive project success.

Extra and Co-curricular Achievements:

- Secretary in IEEE for Women and Engineering Society from 2020 to 2023.
- Served as a Student Representative for my entire undergraduate studies.
- Initially been a NCC candidate, actively participated in all the NCC activities continuously for an year.
- Attended and actively participated in different events, camps and training sessions, such as the IEEE and GD(Google Dev) fests, enhancing the exposure, teamwork and communication abilities.
- Received awards for academic proficiency and excellence in collegiate competitions, showcasing a commitment to continuous learning and achievement.
- Got selected in state wide athletics and participated in many interschool events and won awards.