

Indu Potla

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EDUCATION

Master of Science in Computer and Information Sciences

September 2023 – April 2025

University of Florida, Gainesville, FL, USA

Bachelor of Science in Computer Science

July 2018 – May 2022

Jawaharlal Nehru Technological University, Hyderabad, India

SKILLS

Languages & Databases: Python, Java, SQL, JavaScript, MySQL, PostgreSQL, MongoDB

Frameworks & Technologies: Flask, Django REST Framework, React, Node.js, Express.js, Spring Boot, Angular, Microservices, REST APIs, HTML, CSS

Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD, Jenkins

Tools & Methodologies: Git, GitHub, Visual Studio, Postman, JIRA, Figma, Agile, SDLC, OOD, Unit Testing

PROFESSIONAL EXPERIENCE

Software Engineer

June 2022 – May 2023

Cognizant Technology Solutions, Hyderabad, India

- Improved a client's website with Angular and React, enhancing navigation and streamlining the checkout process, increasing user retention by 15%.
- Automated routine tasks with Python, reducing manual effort by 20% and improving operational efficiency.

Software Engineer Internship

January 2022 – May 2022

Cognizant Technology Solutions, Hyderabad, India

- Developed a Mail Order Pharmacy portal using Java, Spring Boot, and Microservices, improving order processing efficiency by 25% through an intuitive UI and reliable payment system.
- Built and optimized frontend features with React, HTML, and CSS, enabling medicine search, ordering, and seamless payment processing, improving user engagement.
- Enhanced backend performance by integrating MySQL and Spring Boot, ensuring secure drug supply management and 30% faster data synchronization across multiple systems.

Student Research Assistant

June 2021 – December 2021

Vardhaman College of Engineering, Hyderabad, India

- Automated data processing workflows by developing Python scripts and implementing machine learning models, improving data analysis efficiency by 40%.
- Collaborated with a multidisciplinary research team to collect, organize, and analyze datasets, identifying key insights and optimizing research methodologies.

PROJECTS

Teaching Assistant Assignment System (TAAS)

September 2024 – December 2024

- Designed and developed a Teaching Assistant Assignment System using React, Node.js, and MongoDB, enhancing usability and reducing cognitive workload by 23%.
- Implemented an intuitive single-page dashboard with role-based access control and optimized UI/UX using Figma and Material-UI, streamlining TA application processes.
- Developed backend services with Express.js and MongoDB to improve application processing efficiency, reducing error rates by 76% and decision management time by 74%.

Library Management System

September 2023 – December 2023

- Implemented a library management system using Red-Black Trees and Min-Heap structures in Java, applying data structures to efficiently sort and manage book reservations.
- Enhanced library service efficiency by 30% through advanced search algorithms and priority-based reservation functionality.
- Developed a responsive web interface, integrating modern web development practices to streamline user operations and simplify administration.

Predicting General Diseases

January 2022 – April 2022

- Developed a disease prediction prototype using Python, Flask, and machine learning algorithms, achieving 97% accuracy.
- Integrated Decision Trees and Random Forest models into a React-based frontend, improving user interaction and accessibility.
- Optimized backend data management with MySQL, ensuring scalability, reliability, and efficient data retrieval.