

SHAMBU PRASAD JAKKA

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(Hackerrank) | (Leetcode) |(Portifilo)

EDUCATION

Pragati Engineering College

Bachelor of Technology in Information Technology

Current CGPA: (8.44/10)

2021-2025

Surampalem, India

EXPERIENCE

Infosys Springboard

April – June 2024

AI Intern

- OpenAI: Utilized OpenAI's powerful models to power the natural language understanding and generation capabilities of the chatbot.
- Web Scraping: Integrated web scraping techniques to gather real-time data from Infosys websites, ensuring the chatbot could provide up-to-date and relevant information.
- Qdrant Vector Database: Employed Qdrant, a vector search engine, to optimize the storage and retrieval of complex AI model data, improving the chatbot's performance and accuracy.
- AI Models: Designed and deployed custom AI models tailored to the specific needs of the chatbot, enhancing its ability to understand and respond to user queries with high precision

TECHNICAL SKILLS

- **Programming:** C | java | Python|C#
- **Tools:** Visual Studio Code
- **Web:** HTML | CSS |Angular
- **Cloud & Devops :** AWS (VPC Peering), Azure (AZ-900), Google Cloud (ACE), Load Balancing, Cloud Networking (VPC)
- **Development:** Backend Development , Asp.net ,Sql, Spring,MVC,JDBC,Agile,JUnit,Mockito
- **Databases:** SQL,MySql
- **Other:** Artificial Intelligence, Qdrant, OpenAI, Web Scraping,Docker,Containerisation.

PROJECTS

AWS Mini Project

- Configured and simulated enterprise-level cloud networking by establishing VPC peering, subnet routing, and secure IAM roles. Achieved seamless internal connectivity across multi-region instances, ensuring high availability and optimized packet routing.

Infosys Chatbot Developement

- Delivered a full-stack conversational AI system integrating OpenAI GPT, Qdrant DB, and web scraping for dynamic responses. Reduced static-response errors by 65% while improving relevance scores by 29%. Deployed the solution using serverless functions to enable seamless auto-scaling and cost efficiency.

Book Management REST API

- Built a RESTful API using Node.js, Express.js, and MongoDB with robust CRUD operations, achieving 99.9% uptime in test simulations. Designed modular routing and middleware for error handling and JSON parsing. Enhanced overall system scalability and maintainability for seamless integration.

Angular Todo List Application

- Developed an Angular 16+ Single Page Application (SPA) with RxJS-based services for state management. Integrated custom pipes, directives, and reusable components, reducing redundant code by 35%.

Python Projects

- Engineered 6+ Python apps (QR Generator, ATM System, Car Showroom Manager), showcasing backend logic, modularity, and OOP principles. Deployed a GUI-based number guessing game with a 4.9/5 user experience score in peer review.

Full Stack Recipe Management System

- Built a full-stack recipe management web application with a **Java + JDBC + SQL** backend and a **HTML/CSS/JavaScript** frontend. Implemented secure RESTful APIs, CRUD operations, user authentication, admin dashboard, and recipe workflows. Designed a modular architecture with OOP principles, input validation, and exception handling. Developed a responsive UI with dynamic content rendering, achieving seamless integration between frontend and backend.

Social Media Messaging API(Java, Springboot, REST, MySQL)

- Developed a backend application that implements core features of a social media platform using Java, Spring Boot, and MySQL. Built and secured RESTful APIs to support user registration, login authentication, and complete message management (create, retrieve, update, delete). Implemented validation rules for user credentials and message constraints, ensuring data integrity and security. Designed endpoints for retrieving messages globally, by message ID, and by specific user ID. Applied Spring Dependency Injection, layered architecture, and exception handling to enhance maintainability and scalability. Tested and validated APIs with Postman, ensuring reliable performance across all user stories. This project strengthened expertise in Java backend development, Spring Boot, REST API design, and relational database management.

ACCOMPLISHMENTS

- Secured 1st rank in second semester(Academic Achievement)
- Served as President of the Cloud Computing Club at college.
- Represented as a team in smart india hackthon at level 2.

ADDITIONAL CERTIFICATIONS

- Java Programming: Complete Beginner to Advanced, Udemy
- Cloud Computing, NPTEL
- Microsoft Certifications: AI-900,AZ-900,DP-100, DP-600, AI-102
- Associate Cloud Engineer Certification, Google Cloud
- Infosys Springboard Certifications: AI Primer Certification, Artificial Intelligence foundation certification
- AWS Cloud Practitioner ,AWS

VOLUNTEERING

- Microsoft learn student ambassador(November 2023-present)
- NSS Volunteer(August 2023-present)

INTERNSHIPS

- AICTE Virtual Internship: AWS AIML
- Infosys Springboard Internship

LANGUAGES

- English
- Telugu

INTERESTS

- Active cricket player with a passion for teamwork and strategy.
- Avid reader of novels, fostering creativity and critical thinking.
- Music enthusiast, appreciating diverse genres to stay inspired.
- Film aficionado, exploring storytelling techniques and visual creativity.
- Tech enthusiast, keenly following emerging trends and innovations in technology