

 rajsury_a519sr@gmail.com



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Enthusiastic IT professional completed a Master's degree in Computer Applications. Brings practical experience in developing innovative, AI-powered platforms from the ground up. A published researcher with a passion for continuous learning and applying new ideas to solve real-world problems.

SKILLS

- Programming Languages:** Java, Python, C
 - Web Technologies:** HTML, CSS, JavaScript
 - Databases:** MySQL, PostgreSQL, SQLAlchemy
 - Tools:** Git, Github, OpenAI
 - Cloud Platforms:** Microsoft Azure (AZ-900 & AI-900)
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PROJECTS

AgriAssist: AI-Powered Smart Farming Platform

- Developed a full-stack Python Flask application using SQLAlchemy for database management and Bcrypt with OTP email verification for secure user authentication.
- Engineered an interactive mapping module with JavaScript and Leaflet.js, enabling users to draw custom farm boundaries (polygons) with automatic area calculation.
- Integrated OpenStreetMap and Open-Meteo (Weather) APIs to design a rule-based AI engine, generating personalized farming advisories and predicting crop yields.

Coding Battle Royale: AI-Powered Multiplayer Game

- Built a full-stack, real-time multiplayer game using React.js (with Vite) and Tailwind CSS for the frontend, and Node.js with a PostgreSQL database for the backend. Integrated the Gemini API to dynamically generate live coding challenges and provide AI-driven feedback to players during competitive sessions.
- Implemented real-time matchmaking, live leaderboards, and a websocket-based architecture to manage concurrent player states.

Dine In : Restaurant Dine-In Reservation Hub

- Developed a Java Swing desktop application to manage restaurant dine-in registrations, table assignments, and guest lists.
 - Utilized JDBC to connect to a MySQL database, enabling all CRUD (Create, Read, Update, Delete) operations for data persistence.
 - Designed a multi-panel GUI to handle new reservations, view current table occupancy, and manage customer check-in and check-out.
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RESEARCH & PUBLICATIONS

"Coding Battle Royale: A multiplayer competitive coding game using AI" Published in the International Conference on Innovative Computing Technologies and Applications (ICICTA), 2025.

EDUCATION

MASTER OF COMPUTER APPLICATIONS (MCA)
REVA University | 2023-2025
Bangalore, Karnataka, India

B.A. HONS (MATHEMATICS) Maharaja
College(VKSU) | 2017 - 2020
Ara, Bihar, India

I.SC. (PHYSICS, CHEMISTRY, MATHEMATICS)
BSEB | 2015-2017
Bihar, India

MATRICULATION (10TH)
CBSE | 2015
Bihar, India