Rohith Periyasamy

Aspiring Software Engineer

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PROFILE SUMMARY

MCA candidate (2026) with strong object-oriented programming in Java, Python, and React.js, focused on developing scalable software solutions for logistics and supply chain applications. Experienced in designing user interfaces, algorithms, data structures, and unit testing to meet functional requirements. Proven debugging skills using VSCode, with hands-on exposure to RESTful APIs, MySQL databases, and version control via Git. Eager to contribute to reputed organization through rapid learning, analytical problem-solving, and clear communication with cross-functional teams.

SKILLS

FRONTEND: React.js, HTML5, CSS3, Responsive Design, User Interface Design
BACKEND&DB: Java, Python, Flask, MySQL, Object-Oriented Programming
CORECS: RESTful APIs, Debugging, Data Structures, Algorithms, Unit Testing
TOOLS: Git/GitHub, VSCode, Eclipse, Version Control Systems
SOFT SKILLS: Analytical Thinking, Troubleshooting, Verbal Communication, Written Communication

EXPERIENCE

EMGLITZ TECHNOLOGIES
PYTHON DEVELOPER INTERN   Jun 2023 – Jun 2023
- Analyzed requirements and developed an Employee Management System using Python and MySQL, implementing automated CRUD operations that managed 200+ records and reduced manual data entry by 50%.
- Designed secure authentication module with hashed passwords and object-oriented principles, ensuring data protection compliance and enhancing system reliability.
- Automated unit tests with standard tools, verifying functionality and reducing integration errors by 30%.

PROJECTS

PLANT DISEASE PREDICTION (*Machine Learning, Python, Tensor flow, Flask* **)**
- Engineered a CNN model in Python with TensorFlow, achieving 92% accuracy on 5,000+ images for predictive analytics, mirroring supply chain optimization challenges.
- Preprocessed image datasets using OpenCV and analytical algorithms, streamlining data pipelines and enhancing processing speed by 40%.
- Deployed a Flask-based web interface for real-time predictions, incorporating unit tests to validate performance under varying loads.

AI CHATBOT FOR STUDENT QUERIES (*Python, Artificial Intelligence* **)**
- Built an NLP-driven chatbot in Python to process queries and automate responses, decreasing manual handling by 20% in a resource-constrained environment.
- Integrated APIs with 85% intent recognition accuracy, utilizing object-oriented design for modular troubleshooting in simulated operational support.
- Refined algorithms through debugging and testing, shortening response latencies by 15% and ensuring robust functionality.

EDUCATION

MUTHAYAMMAL ENGINEERING COLLEGE   Namakkal, Tamil Nadu, 2026
Master of Computer Applications (MCA)
GPA: 8.8/10 (Upto 2nd Semester)

KSR COLLEGE OF ARTS AND SCIENCE   Namakkal, Tamil Nadu, 2024
Bachelor of Computer Applications (BCA)
GPA: 78%

ACHIEVEMENTS

- Honed debugging and analytical skills by resolving 100+ algorithmic challenges on LeetCode and GeeksforGeeks, applying techniques to fix critical memory leaks in team projects.
- Selected for MSME Idea Hackathon 2025 from 10+ proposals, focusing on innovative software solutions for operational efficiency.

CODING PROFILES

- GeeksforGeeks - rohithperq
- LeetCode - Rohithperiyasamy7