

ROHITH PERIYASAMY

Software Engineer

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🔗 [GitHub/rohithp](https://github.com/rohithp)

SKILLS

Languages: Java, Python, JavaScript

Backend: Spring Boot, Flask, REST APIs, Microservices (Basics), Multithreading (Basics), System Design Fundamentals (Caching, Load Balancing, API Rate Limiting), Fast API

Frontend: HTML, CSS, React (Basic)

Databases: MySQL, SQLite (Indexing, Query Optimization)

Cloud & DevOps: AWS (EC2, S3), GitHub Actions (CI/CD), Docker (Basics)

Tools: Git, GitHub, Postman, IntelliJ, VS Code, Eclipse

Core CS: Data Structures & Algorithms, OS, DBMS, OOP, SDLC, Unit Testing, API Performance Optimization, Distributed system

EXPERIENCE

Python Developer Intern – Emglitz Technology

Jun 2023 – Sep 2023

- Automated multi-step data pipelines using Python, cutting manual workload by **35%** and reducing processing latency by **30%**.
- Refactored computation-heavy scripts to optimize memory usage, boosting execution speed by **~25%** across internal workflows.
- Implemented testing suites and structured logging reducing debugging cycles by **20%**, improving engineering reliability.
- Designed modular components enabling **scalable extension** of future automation tasks.
- Tech Stack:** Python, Pandas, NumPy, Git, VS Code

PROJECTS

TechNest – MCA Department Web Platform 

- Built scalable modules (announcements, faculty, resource hub) enabling seamless access for **300+ student users**.
- Designed optimized REST-style endpoints and front-end rendering, reducing average page latency by **40%**.
- Implemented role-based access control and minimized admin workload by **50%** through automated update flows.
- Added DB indexing and optimized queries improving fetch performance by **35%**.
- Tech Stack:** HTML, CSS, JS, PHP, MySQL

LeafGuard – Plant Disease Prediction System 

- Developed an end-to-end ML pipeline achieving **92% model accuracy** using optimized CNN architectures.
- Reduced training time by **28%** through batch-tuning, image augmentation, and GPU-efficient operations.
- Built a Flask-based API interface reducing user inference time by **70%**, delivering near real-time predictions.
- Designed modular service architecture enabling horizontal scaling for batch inference workflows.
- Tech Stack:** Python, TensorFlow/Keras, OpenCV, NumPy, Flask

EDUCATION

Muthayammal Engineering

College (Autonomous),

Namakkal, Tamil Nadu

Affiliated to Anna University

Master of Computer

Applications(**MCA**)

CGPA: 8.8 / 10 | 2024 – 2026

K.S.R. College of Arts and

Science(Autonomous),

Namakkal, Tamil Nadu

Bachelor of Computer

Applications(**BCA**)

CGPA: 7.8 / 10 | 2021 – 2024

ACHIEVEMENTS

- Presented a validated prototype at **MSME Idea Hackathon**.
- Coordinated technical events with **200+ student participation**.
- Delivered technical workshops for **300+ students**.

CERTIFICATIONS

- Full-Stack Development — Udemy
- TCS iON Young Professional

COURSEWORK

- Data Structures and Algorithms
- OOP
- Operating System
- DBMS

CODING PROFILE

- LeetCode:**
leetcode.com/u/Rohithperiyasamy74
- GeeksforGeeks:**
[geeksforgeeks.org/user/rohithperadk1](https://www.geeksforgeeks.org/user/rohithperadk1)