

SYED KHAJA NAYAB RASOOL

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Professional Summary

Results-driven ECE graduate and aspiring Software Engineer with hands-on experience in Java Full-Stack Development, including Core concepts in Java, Python, MySQL and OOP principles. Proven ability to build scalable applications, highlighted by developing a real-time deep-learning detection system with 85.6% accuracy and a multi-module Java application. Strong foundation in data structures, problem solving, and writing clean, maintainable code. Seeking an entry-level software engineering role to contribute to robust and scalable systems.

Education

B. Tech in Electronics and Communication Engineering (ECE) Siddharth Institute of Engineering & Technology, Puttur	2021 – 2025 CGPA: 8.4
Intermediate (MPC) Gautam Junior College, Badvel	2019 – 2021 Percentage: 97%
SSC (Secondary School Certificate) Rathnam English Medium High School, Badvel	2019 CGPA: 10.0

Technical Skills

Languages: Java, Python, SQL, HTML, CSS

Java Concepts: OOP, Exception Handling, Multithreading, Collections Framework, Generics

Database: MySQL — Joins, Subqueries, Constraints, Indexing, Normalization

Tools & Platforms: VS Code, Eclipse IDE, Git, GitHub

Core Competencies: Data Structures & Algorithms (Learning), OOP Design, Debugging

Projects

Road Damage Detection System Python, YOLOv8, OpenCV

- **Situation:** Road infrastructure monitoring required a scalable, automated approach to identify damage in real time.
- **Task:** Developed an end-to-end object detection pipeline using YOLOv8 and Python to classify crack patterns and pothole types from live video feeds.
- **Action:** Implemented image segmentation and feature extraction modules; trained and fine-tuned the YOLOv8 model on a custom-labelled road damage dataset.
- **Result:** Achieved **85.6% detection accuracy**, enabling reliable real-time classification of 4+ road damage categories.

Game-Hub Console Application Java, OOP, Collections Framework, Exception Handling

- **Situation:** Needed a complex, multi-feature Java project to demonstrate mastery of core OOP and design principles.
- **Task:** Designed and built a modular console application integrating multiple mini-games, a movie booking engine, and a food ordering system.
- **Action:** Applied Inheritance, Abstraction, and Polymorphism across 10+ modules; built a billing engine with cumulative score-based discount logic and robust Exception Handling.
- **Result:** Delivered a fully functional, extensible application with zero critical bugs, demonstrating production-quality Java coding practices.

Experience

Full Stack Java Developer Trainee Bangalore, India
QSpiders Training Institute Aug 2023 – Dec 2023

- Built full-stack Java applications using JDBC, MySQL, and OOP concepts during 400+ hours of hands-on development training.
- Optimized SQL queries involving multi-table Joins and Subqueries, reducing simulated data retrieval time by an estimated 30%.

Python Programmer Intern Remote, India
Pantech eLearning Pvt. Ltd. May 2023 – Jun 2023

- Developed 15+ basic Python programs using loops, functions, and file handling and worked on simple data processing tasks to improve problem-solving skills.
- Automated repetitive tasks using Python scripts during training exercises and that Strengthened fundamentals of programming logic and debugging.

Certifications & Training

- **Core Java, Advanced Java, SQL & HTML/CSS** — CV Corporate Services Pvt. Ltd. (CVCORP), Hyderabad. (Mar 2025 – Nov 2025).