

Balakrishna Goud Malela

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About Me

Results-driven Software Engineer with hands-on experience delivering **enterprise solutions** at Newgen Software, where I improved **document processing speeds by 40%** for the State Bank of India. Currently pursuing my **Master's in Computer Science** at Texas Tech University (3.5 GPA), I combine academic excellence with expertise in **full-stack development, database optimization, and automation testing**. Seeking **software engineering opportunities** to leverage my technical skills in **Java, Python, JavaScript, and Oracle SQL** to drive measurable impact through innovative solutions.

Education

Texas Tech University	Aug 2024 – May 2026
Master of Science in Computer Science	CGPA: 3.5/4.0
Graphic Era University	July 2019 – June 2023
Bachelor of Technology in Electronics and Communication Engineering	CGPA: 9.27/10.0

Technical Skills

Programming Languages: Python, Java, HTML, CSS, JavaScript, SQL

Databases: Oracle, PostgreSQL, MS SQL Server, MySQL

Frameworks: Spring Boot, Spring AI, Spring MVC, Hibernate, JPA

Development Tools and Concepts: VS Code, Eclipse, IntelliJ IDEA, Git, Postman, Microservices, Docker, AWS

Professional Experience

Application Engineer	Feb 2023 – Jul 2024
Newgen Software Pvt Ltd — Mumbai, India	

Client: State Bank of India — Agricultural Loan Origination System (ALOS)

- Led **backend development** and optimization of the **Document Generation** module for ALOS using **Java, JavaScript, Oracle SQL, HTML/CSS**, improving **document processing speed by 40%** and enhancing operational efficiency for India's largest bank.
- Architected and deployed **production-grade workflows** integrating **iBPS (Intelligent Business Process Suite)** with **Oracle databases**, reducing **query response times by 30%** through optimized **SQL procedures** and **indexing strategies**.
- Collaborated with **cross-functional teams** of 10+ engineers across business, **QA**, and infrastructure to ensure seamless integration of document workflows, meeting strict **banking regulatory requirements** and **SLA commitments**.
- Managed **full-cycle UAT-to-production deployments** including testing, patch releases, and **post-deployment support**, maintaining **99.9% system uptime** and reducing critical incidents for **mission-critical banking operations**.
- Gained hands-on experience with **iBPS workflow automation** during initial months, implementing solutions that improved **business process efficiency by 25%** and contributed to debugging **enterprise-level applications**.

Projects

QuizBot – Streamlit Network Security Quiz and Q&A GitHub	2025
• Developed an interactive quiz application using Streamlit and Python to test knowledge on network security concepts including encryption, firewalls, intrusion detection systems, and threat mitigation strategies .	

A Textbook Remedy for Domain Shifts – Medical Image Analysis GitHub	2025
• Implemented knowledge priors and domain adaptation techniques using Python, TensorFlow, and PyTorch to address domain shift challenges in medical image analysis , particularly focusing on cross-hospital and cross-modality generalization issues.	

Courses & Certifications	
Master Java, Spring and Spring Boot – Udemy — Spring Boot, Spring AI, Docker, and Microservices	

Meta Data Analyst Professional Certificate – Coursera — Data analysis and visualization using Python, SQL, and Tableau

Data Structures & Algorithms in Python – Coding Ninjas — Comprehensive DSA training with problem-solving focus

Advanced SQL – Udemy — Query optimization, complex joins, and database design