

# 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

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

<b>Application Engineer</b> <i>Newgen Software Pvt Ltd — Mumbai, India</i>	<b>Feb 2023 – Jul 2024</b>
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*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

<b>QuizBot – Streamlit Network Security Quiz and Q&amp;A</b>   <a href="#">GitHub</a>	<b>2025</b>
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- 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**.
- Integrated **dynamic question generation** with randomized quiz formats, **real-time scoring system**, and comprehensive **performance analytics dashboard**, providing immediate feedback and detailed **progress tracking** for users to enhance learning outcomes.

<b>A Textbook Remedy for Domain Shifts – Medical Image Analysis</b>   <a href="#">GitHub</a>	<b>2025</b>
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- 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.
- Applied **transfer learning** and **feature extraction methods** to improve **model robustness** and generalization across different datasets, imaging modalities (**CT**, **MRI**, **X-ray**), and clinical settings, achieving enhanced **diagnostic accuracy** for varied patient populations.

## 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