Balakrishna Goud Malela

Lubbock, TX | +1 (806) 726-0902 | malelabalakrishnagoudofficial@gmail.com

LinkedIn | **GitHub** | **Portfolio**

SUMMARY

Full-stack Software Engineer with **1.5+ years** of enterprise experience at **Newgen Software**, boosting **document processing speed by 40%** for India's largest bank. Currently pursuing an **M.S. in Computer Science** at Texas Tech University (**GPA: 3.5**), with production-proven expertise in **Java**, **Spring Boot**, and **Oracle SQL**. Track record of architecting **scalable backend systems**, automating business workflows, and sustaining **99.9% uptime** in mission-critical environments.

TECHNICAL SKILLS

Frameworks & Libraries: Spring Boot, Spring MVC, Spring AI, Hibernate, JPA, React JS
Languages: Java, Python, JavaScript, SQL
Databases: Oracle, PostgreSQL, MySQL
Cloud & DevOps: AWS, Docker, Microservices, REST APIs, CI/CD
Tools: IntelliJ IDEA, Git, Postman, VS Code

PROFESSIONAL EXPERIENCE

Application Engineer   *Feb 2023 – Jul 2024*
Newgen Software Pvt. Ltd., Mumbai, India | Client: State Bank of India

- **Engineered** backend optimization of the **Document Generation** module in **Java**, **Oracle SQL**, and **JavaScript**, boosting document processing speed by **40%** across a **500M+ customer** banking platform.
- **Architected** production-grade **iBPS** workflow integrations with Oracle databases, reducing query response times by **30%** through optimized stored procedures and targeted indexing strategies.
- **Spearheaded** full-cycle **UAT-to-production** deployments including patch releases and post-deployment monitoring, sustaining **99.9% system uptime** for mission-critical banking operations.
- **Automated** iBPS business process workflows, improving operational efficiency by **25%** and reducing manual intervention across cross-functional teams of **10+ engineers**.

PROJECTS

AccessAI — AI-Powered Access Management System   **GitHub**
React, Spring Boot, PostgreSQL, Groq API (LLaMA 3.3 70B), Spring AI, Spring Security

- **Architected** a full-stack **RBAC** platform with 3 role-based portals (Employee, Manager, Security Admin), enabling real-time access request submission, approval tracking, and role-specific dashboard visibility across all stakeholder tiers.
- **Integrated** Groq LLaMA 3.3 70B via **Spring AI** to auto-classify every access request as Low, Medium, or High **security risk**, generating contextual **AI explanations** and automatically escalating high-risk cases to Security Admins for compliance review.
- **Designed** 9+ **RESTful API** endpoints secured with **Spring Security**, enforced a timestamped **audit log** for regulatory traceability, and deployed backend on Render and frontend on Vercel.

QuizBot — Network Security Quiz Application   **GitHub**
Python, RAG, Streamlit, Ollama

- **Built** an interactive **quiz application** covering **encryption**, **firewalls**, intrusion detection systems, and threat mitigation strategies, with randomized question generation and adaptive quiz formats to prevent pattern memorization.
- **Engineered** a real-time **scoring engine** and a comprehensive **performance analytics** dashboard delivering immediate feedback, topic-wise accuracy breakdowns, and detailed progress tracking across user sessions.

EDUCATION

Texas Tech University   *Aug 2024 – May 2026*
M.S. Computer Science, Lubbock, TX | GPA: 3.5/4.0

Graphic Era University   *Jul 2019 – Jun 2023*
B.Tech, Electronics & Communication Engineering, Dehradun, India | GPA: 9.27/10.0

CERTIFICATIONS

- **Master Java, Spring & Spring Boot** — Udemy (Spring Boot, Spring AI, Docker, Microservices)
- **Meta Data Analyst Professional Certificate** — Coursera (Python, SQL, Tableau)
- **Data Structures & Algorithms in Python** — Coding Ninjas   **Advanced SQL** — Udemy