Leelendra Reddy Gogula
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TECHNICAL SKILLS

Languages: Java, Python, C++, C
Backend: Spring Boot, Spring MVC, REST APIs, Hibernate, JPA, Microservices, Flask, Django
Databases: MySQL, PostgreSQL, Oracle
Cloud & DevOps: AWS, GCP, Azure, Docker, Kubernetes, Git, Maven, CI/CD
Testing & Tools: JUnit, Postman
Core Concepts: Data Structures & Algorithms, OOP, System Design
Security: AES, SHA, RSA, Salting, Secure Authentication
Methodologies: Agile, Scrum, SDLC

EDUCATION

Florida Atlantic University — **Boca Raton, FL, United States**
Master of Science (M.S.) in Computer Science | May 2026 — **GPA:** 3.86
Koneru Lakshmaiah Education Foundation — **Vijayawada, AP, India**
Bachelor of Technology (B. Tech) in Computer Science | May 2024 — **GPA:** 3.72

WORK EXPERIENCE

Graduate Teaching Assistant, Florida Atlantic University | Boca Raton, FL, United States — **Jan 2025 - May 2026**

- Mentored **100+ students** across Cloud Native Development and Advanced Database Structures courses in building backend applications using Flask, REST APIs, Google Cloud Run, and MySQL, earning **2 faculty letters of recommendation** for technical expertise and instructional impact.
- Led 3 technical workshops on cloud-native deployment, containerized microservices, and scalable GCP architecture, directly enabling students to design and ship production-ready backend services on Google Cloud Run.
- Reviewed **150+ code submissions** with a consistent 1-week turnaround, advising on MySQL schema design, query optimization, and NoSQL data modeling for database-driven systems, including course registration and library management platforms.

Java Intern, Ziroh Labs – Bengaluru, KA, India — **Oct 2023 - Nov 2023**

- Developed a custom multi-dimensional vector data structure from scratch to enable efficient data persistence through a key-value storage model using RocksDB and directly support backend feature delivery.
- Optimized vector indexing and access patterns, yielding **70% improvement** in execution performance and reducing runtime overhead for data retrieval and computation in the application layer.
- Tested complex edge cases and constraint scenarios, eliminating logic gaps and contributing to a **20% faster** turnaround time and product delivery.

PROJECTS

Pinterest Inspired Cloud-Native AI Photo Platform | GitHub — **Dec 2024**
Python, Flask, Google Cloud Run, Google Cloud Storage, LLM APIs (Gemini), HTML

- Built and deployed a Flask-based cloud-native photo sharing platform on Google Cloud Run with 4 RESTful endpoints handling image uploads, dynamic file retrieval, and real-time rendering, integrated with a GitHub CI/CD pipeline for automated deployment on every commit.
- Integrated Gemini LLM API to generate AI-powered captions and descriptions for every user-uploaded image, storing metadata alongside images in Google Cloud Storage.
- Configured traffic splitting across **2 Cloud Run instances** using a **50/50 load balancing** strategy to distribute concurrent requests, ensuring low-latency responses and high availability under parallel user traffic.

Secure Key-Based Authentication Architecture for Web Applications | GitHub — **Apr 2024**
Java, Spring Boot, REST APIs, AES, SHA, Salting, Postman

- Architected a key-based REST authentication system using Java and Spring Boot, implementing a 4-stage security pipeline - user registration, cryptographic key generation, authentication token production, and secure login - eliminating reliance on conventional username/password mechanisms.
- Applied a multi-layer cryptographic security workflow combining AES encryption, SHA hashing, random string generation, and salting across 2 decoupled MySQL tables, securing all authentication credentials both in transit and at rest, with no plaintext exposure in the database.
- Validated authentication integrity across **7 test cases** and 6 constraint metrics using Postman, covering brute-force resistance, replay-attack prevention, and corrupted-key detection, **achieving 100% accuracy** between expected and actual outputs across all adversarial scenarios.

Interior Designer Business Platform | GitHub — **Dec 2023**
Java, Spring Boot, Spring MVC, Spring Security, MySQL, Hibernate, Google Forms API, Heroku

- Developed a full-stack enterprise platform for a professional interior design client using Java, Spring Boot, and Spring MVC, delivering real-world features including dynamic quotation generation, automated billing, and service portfolio management for active client use.
- Engineered a sophisticated data persistence layer using MySQL and Hibernate (ORM), implementing a custom mechanism to store and retrieve image byte arrays directly in the database to ensure data integrity and eliminate external file storage dependencies.
- Implemented robust application security utilizing Spring Security with BCrypt password hashing and Role-Based Access Control (RBAC), deploying the final solution to Heroku to secure administrative dashboards and internal client data.

CERTIFICATIONS

- AWS Certified Cloud Practitioner | Link — **May 2022**
- Microsoft Certified: Azure Fundamentals | Link — **Jul 2025**
- Microsoft Certified: Security, Compliance, and Identity Fundamentals | Link — **Nov 2025**