

# Nagaraju Kumar Bollu

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## Education

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**SR University**, Warangal

B.Tech in Computer Science and Engineering

GPA: 7.00

**Expected July 2026**

## Technical Skills

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- **Languages:** Java, Python, C
- **DSA:** Arrays, Strings, Stack, Queue, Recursion
- **Web:** HTML, CSS, JavaScript, REST APIs
- **Tools/Frameworks:** Flask, Selenium, Git, VS Code
- **Database:** MySQL (CRUD, Joins, Schema Design)
- **OS:** Windows, Linux

## Projects

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### Spendora — Full-Stack Personal Finance Web Application

*Tech Stack: Angular 21, Spring Boot 3.4, PostgreSQL, Spring Security, JWT, Flyway*

Feb 2026 – Present

- temBuilt a responsive finance dashboard using Angular and Spring Boot with secure JWT-based authentication and protected REST APIs for user data and budgeting features.
- temImplemented timeline-driven analytics with optimized PostgreSQL queries and Flyway-managed schema migrations within a scalable layered backend architecture.

### Hop Italian Domination Problem Solver

*Graph Optimization using Genetic Algorithm*

May 2024 – June 2024

- Implemented a Python-based simulation using NetworkX to solve hop-constrained domination problems on undirected graphs.
- Designed a customized Genetic Algorithm with selection, crossover, mutation, and a domain-specific fitness function to optimize domination cost.

### Visual Cryptography with Pixel Transparency

Jan 2025 – Feb 2025

- Built a secure image encryption system using pixel-level XOR operations and transparency-based visual cryptography techniques.
- Generated dual encrypted shares resistant to statistical attacks and enabled interactive real-time visualization controls.

## Experience

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### National Institute of Technology, Warangal

*Summer Research Intern — Department of Computer Science & Engineering*

May 2024 – June 2024

- Selected for a competitive research internship and developed an evolutionary-algorithm-based solution for the Hop Italian Domination Problem.
- Designed and optimized Genetic Algorithm components for large graph datasets and presented weekly research progress.

## Leadership & Activities

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### Cloud Computing & DevOps Student Club

Marketing & PR Secretary — Lead – ACE Cloud Certificate Program

May 2024 – May 2025

- Led marketing and outreach initiatives that increased student participation in technical events by 30%.
- Organized and managed the Google Cloud ACE certification learning path and technical sessions.

### SRU-MUN'25

Disciplinary Committee Head

- Managed a 50-member operational team to coordinate logistics for a 1500+ participant university conference.
- Recognized for effective leadership, event execution, and cross-team coordination.

## Certifications

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- Introduction to Front-End Development
- Introduction to Back-End Development
- Generative AI with Large Language Models