Jayatheerth Kulkarni

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EDUCATION

Geethanjali College of Engineering and Technology (GCET)　　Hyderabad, India
B.Tech in Computer Science　　*2023 – 2027*

- **CGPA**: 7.7 / 10.0
- **Relevant Coursework**: Operating Systems, Database Management Systems (DBMS), Computer Networks, Data Structures & Algorithms, Object Oriented Programming.

EXPERIENCE

Git (Core Version Control System)　　Remote
Core Contributor (C Language)　　*May 2025 – Present*

- Authored and merged **8+ patches** into the upstream Git kernel, impacting **100 million+ developers**.
- Featured in **Git Rev News (Edition 124)** for significant open-source contributions.
- Collaborated with maintainer Junio C Hamano to resolve a critical `git submodule` bug that corrupted user configurations.
- Optimized `module_add()` in C to detect namespace collisions, preventing data loss for large monorepos.
- Defended architectural decisions on the Git Mailing List, navigating **4+ rounds** of rigorous review per patch.

GCET Open Source Foundation　　Hyderabad, India
President & Lead Maintainer　　*Sept 2025 – Present*

- Founded and scaled the college's primary Open Source community to **50+ active student developers**.
- Managed CI/CD workflows, reviewing and merging **10+ Pull Requests** weekly to maintain code quality.
- Mentored 20+ juniors on Git internals, GSoC preparation, and production-grade Go programming.

RobotPaac　　Hyderabad, India
Software Engineering Intern　　*Oct 2024 – Jul 2025*

- Designed and built a digital Inventory Management System to replace legacy manual filing for a robotics manufacturing firm.
- Migrated 100s of offline files to a centralized web database, stress-testing the system with **160,000+ rows** of data.
- Optimized database queries to handle bulk insertions, ensuring **sub-millisecond latency** during peak inventory updates.
- Successfully deployed the solution to production, reducing the company's manual operational overhead by **40+ hours per week**.

PROJECTS

Gink Programming Language | *C, Assembly, Compiler Design, GCC*　　Jan 2026 – Present

- Designed **Gink**, a statically typed, memory-safe systems programming language without garbage collection.
- Authored a **95-page technical specification** defining syntax, type system, and a Rust-inspired ownership model.
- Architected a **4-stage compilation pipeline** (Preprocessing, Compilation, Assembly, Linking) utilizing GCC for object generation.
- Developed **Reqter**, a decentralized TOML-based package manager with conflict resolution and dependency locking.

TECHNICAL SKILLS

Languages: C (Advanced), Go (Golang), Java, JavaScript (ES6+), Rust, SQL, Assembly
Backend/Web: Gin, Node.js, React.js, Express
Infrastructure: Docker, AWS, Linux Kernel Utilities, Git Internals, CI/CD, Compilers
Databases: PostgreSQL, Redis

CERTIFICATIONS & ACHIEVEMENTS

Certifications: Cisco CLP (Advanced C Programming), Oracle Certified (Java Fundamentals)
Achievements: Git Rev News (Featured Lead Story), LeetCode Rating 1641 (Top 20%), Smart India Hackathon 2025 Selection