

MANISH KRISHNA KANDRAKOTA

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Education

Sreenidhi Institute of Science & Technology

Bachelor of Technology in Computer Science & Engineering

Hyderabad

GPA: 8.3 / 10.0 (Expected: 8.5)

2022 - 2026

Aakash Institute

High School (Science), Telangana State Board - 97%

Experience

RESEARCH & PUBLICATIONS

Charity with Clarity: Crowdfunding Using Smart Contracts

Bengaluru, India

IEEE - ICRISST 2024 | indexed in IEEE Xplore

<https://ieeexplore.ieee.org/document/10921771>

- A Secure and Transparent Smart-Contract-Based Crowdfunding Model
- Designed and implemented a decentralized crowdfunding system (Ethereum + Solidity).
- With contributor voting, spending-request governance, and secure fund-release logic.

Technical Writing

- Author of technical blogs on systems, security, and software engineering

Hashnode → <https://hashnode.com/@MANISH-K-07>

Medium → <https://medium.com/@MANISH-K-07>

OPEN SOURCE CONTRIBUTIONS

Checkstyle — Java Static Analysis Framework (100+ merged pull requests)

- Contributed extensively to one of the most widely used Java static analysis tools
- Improved rule consistency, test coverage, documentation, and code quality.
- Recognized by maintainers for consistent, high-quality engineering contributions.

Projects (Repositories in GitHub)

Name	Description	Domain
CodeChecker	Java-based code linter with style and cyclomatic complexity checks	Program Analysis & Static Code Analysis
PyScope	A lightweight performance profiler for Python programs	Dynamic Program Analysis & Runtime Systems
SecureFlow	A static taint-analysis tool that detects when untrusted input flows into dangerous APIs.	Software Security & Vulnerability Analysis
NodeSync	Mini Fault-Tolerant Key-Value Store	Distributed Systems & Concurrency
Py2C	A mini Python-to-C optimizer, built from first principles	Compiler Design & Program Transformation
ModelTrace	A Research-Grade Framework for Inspecting, Debugging, and Stress-Testing Machine Learning Models	Machine Learning Systems & Model Interpretability

Technical Skills

- **Languages:** Java, Python, Solidity, C++, JavaScript
- **Systems & Tools:** Linux, Git, Docker, Maven, CI/CD
- **Blockchain:** Ethereum, Smart Contracts, Governance Models
- **Core Areas:** Software Security, Scalable Systems, Business English (Pearson Certified)