SIDDHARTH GANTA

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EDUCATION

Bachelor of Technology | Computer Science and Engineering　　　　*2021 – 2025*

Kakatiya Institute of Technology and Science Warangal　　　　*CGPA: 8.34*

SKILLS

Programming : Java, C, Python, SQL

Web Development Technologies : HTML, CSS, Javascript

Automation & Testing Tools : Selenium, Playwright, RestAssured, TestNG

PROJECTS

Secure De-Duplication and Recovery with Public-Key Encrypted Keyword Search

- Developed a secure cloud storage system that supports **encrypted keyword search** and **intelligent data deduplication,** aimed at enhancing data privacy, retrieval efficiency, and storage optimization in distributed environments.
- Implementing **Elliptic Curve Cryptography (ECC)** for lightweight, high-security public-key encryption and utilizing **BLAKE2 hashing** for fast, secure, and collision-resistant data processing.
- Tech Stack: Python, ECC, BLAKE2b, Flask, MongoDB

Automation of Job Category Workflow – OrangeHRM Portal

- Developed Selenium WebDriver scripts to automate **creation, validation,** and **deletion** workflows in the OrangeHRM portal, integrating **TestNG** for structured execution and **Apache POI** for Excel-based data handling.
- Performed **data-driven, functional, regression,** and **cross-browser testing** across multiple environments, generating detailed HTML reports and improving test coverage, reliability, and visibility.
- Tech Stack: Java, Selenium, Apache POI, TestNG

Interest & EMI Calculator Automation

- Automated **EMI calculations** for Car Loan, Home Loan, and EMI Loan modules using **Selenium WebDriver** and **TestNG**, validating outputs like EMI, interest payable, and total payment across multiple datasets.
- Enabled PDF/Excel downloads, share link verification, and logged results using **Apache POI**, executed tests on **Selenium Grid** for cross-browser compatibility
- Tech Stack: Java, Selenium, Apache POI, TestNG, Selenium Grid

EXPERIENCE

Cybersecurity Intern – Cisco Networking Academy　　　　*Apr 2023 – Jun 2023*

- Engaged in hands-on cybersecurity training focused on network security protocols, threat analysis, and risk mitigation within dynamic environments.
- Applied Packet Tracer to architect and simulate secure network infrastructures, incorporating routing, switching, and firewall configurations.

Programmer Analyst Trainee – Cognizant　　　　*Jan 2025 – Jun 2025*

- Developed and maintained Selenium-based automation scripts for web-based applications, reducing manual testing efforts by 60% and accelerating release cycles and focused on Agile Methodology.
- Executed end-to-end functional, regression, and API testing. ensuring system reliability and meeting stringent quality standards for complex workflows.

CERTIFICATIONS

- **Project Management & Entrepreneurship (*NPTEL*)**
- **Quality Engineering with Selenium Automation (*QEA*)**