

# Kalpana Chinthareddy

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## EDUCATION

### Saint Louis University, Missouri, USA

Jan 2024-Dec 2025

Master of Science in Computer Science

**GPA: 3.89**

Courses: Principles of Software Development, Machine Learning, Computer Networks, Database Systems

### Sreenidhi Institute of Science and Technology, Hyderabad, India

Aug 2019-Jun 2023

Bachelor of Technology-Computer Science and Engineering

**GPA: 8.63**

Courses: Data Structures and Algorithms, Data Science, Linux Programming, Operating Systems

## SKILLS

**Programming Languages:** Python, SQL, Java, C++, C, HTML, CSS, JavaScript, Typescript

**Software Development:** React, Next.js, NodeJS, Flask, Selenium, Automation Testing, Documentation, API Development, SDLC, MongoDB, MySQL, MS SQL

**Tools and Technologies:** Docker, Microservices, AWS, Informatica, Perforce, Jenkins (CI/CD pipelines), Postman, Git, Agile Methodology

**Certifications:** AWS Cloud Virtual Internship, Python (HackerRank), Data Structures & Algorithms (Smart Interviews), HTML/CSS (Coursera), Problem Solving Using C (NPTEL)

## WORK EXPERIENCE

### Informatica Business Solutions Technologies Pvt Ltd. - Apprentice

Aug 2022-Nov 2023

- Developed and maintained automated **UI** and **API** tests using Selenium with Python and Java, reducing manual testing efforts approximately by **30%**.
- Utilized **Perforce** to upload and manage test cases, streamlining version control and collaboration within the team.
- Integrated automated tests into a **Jenkins CI/CD pipeline** in collaboration with DevOps teams, using **shell scripting** to automate deployment processes, cutting deployment time by **50%** and reducing production errors by **15%**.
- Participated in **microservices**-based development, debugging, and automation testing for Data Integration and Infacore products.
- Worked in **Agile** environments, actively participating in daily stand-ups, sprint planning, and project reviews to align testing efforts with development goals.

## ACADEMIC PROJECTS

### Task Tracker Application with Real-Time Chat - *NextJS, Javascript, HTML, CSS, NodeJS, MongoDB, WebSockets*

- Developed and deployed a **full-stack task management app** using **Next.js**, **Node.js**, and **MongoDB**, allowing users to efficiently track tasks and deadlines.
- Designed **RESTful APIs**, improving task management performance by **40%**.

### Crop and Fertilizer Recommendation System – *Flask, Machine Learning (SciKit Learn, Pandas)*

- A **Machine Learning-based recommendation system** using **SciKit Learn** and **Pandas** to recommend optimal crops and fertilizers based on data from **over 2000 farms**.
- Achieved **90% accuracy** in predicting the best crops and fertilizers.

### Port Scanner - *Python, Multi-threading, Networking*

- Created a **Python-based port scanner** capable of scanning up to **2000 ports** on a target machine, detecting open ports and identifying running services.
- Implemented **multi-threading**, reducing scanning time by **50%**, allowing for faster and more efficient vulnerability assessment.

## ACHIEVEMENTS

- First Place** in **CSHACK2022 Hackathon** (Sreenidhi Institute of Science and Technology) for innovative project development.
- Actively solved **300+ problems** on coding platforms like **CodeChef**, **LeetCode**, and **HackerRank**, sharpening problem-solving skills

## LEADERSHIP AND INVOLVEMENT

- Project Leader, START Club, SNIST (2020-2021)**: Led a team of 6-8 members in delivering technical projects, improving team productivity.
- Placement Advisory Board Member, START Club, SNIST (2021-2022)**: Board member of a club with 80+ members, supporting career development and placement initiatives.