

Chesta Pruthi

cheshtapruthi2502@gmail.com | +91 7011521124 | linkedin.com/in/chesta-pruthi

Aspiring Software Engineer | Python, Java, C++ | Data Structures & Algorithm | System Design

Professional Summary

Detail-oriented Computer Science undergraduate with a strong foundation in **Software Engineering, Data Structures and Algorithms, and Object-Oriented Programming**. Proficient in **Python, Java, and C++**, with experience designing and developing software solutions in **Unix/Linux environments**. Familiar with **Software Design Principles, Distributed Systems, Machine Learning, and Information Retrieval**. Actively engaged in **CS-related extracurriculars** and collaborative technical projects. Passionate about building scalable systems, solving real-world problems through code, and continuously learning emerging technologies in **Backend Development, System Architecture, and Security Software**.

Technical Skills

- **Programming Languages:** Python, Java, C++
 - **Computer Science Foundations:** Data Structures, Algorithms, Object-Oriented Programming, Software Design
 - **Operating Systems & Environments:** Unix, Linux, Bash
 - **Tools & Platforms:** Git, VS Code, GCC, GDB, Make, Shell
 - **Libraries/Frameworks:** STL (C++), Collections Framework (Java)
 - **Skills Summary:** Python, Java, C++, Data Structures & Algorithms, Software Engineering, Unix/Linux, Git, Software Design, System Programming, Distributed System (basic), Machine Learning (intro)
-

Education

Bachelor of Technology in Computer Science

Lovely Professional University, India

Expected Graduation: 2027 | **CGPA:** 7.09/10

Certifications

- Microsoft Azure AI Fundamentals (AI-900)
 - Foundations of Cybersecurity – Google
-

Projects

Multithreaded Web Crawler

Role: Software Engineer

Tools: Python, Threading, Queue, Requests, BeautifulSoup, Unix/Linux

- Built a multithreaded web crawler that scraped and indexed web pages concurrently using thread-safe queues.
- Implemented URL deduplication using hash sets and controlled depth-based traversal with retry logic.
- Demonstrated understanding of concurrency, synchronization, and network I/O in a Unix environment.

Secure Login & Session Management System

Role: Software Engineer

Tools: Python, Flask, Bcrypt, JWT, SQLite

- Designed a secure authentication system using hashed passwords, JSON Web Tokens, and role-based access control.
 - Followed modular software design with reusable components and robust error handling.
 - Simulated and prevented common vulnerabilities like brute-force and SQL injection.
-

Soft Skills

- **Teamwork:** Collaborated effectively with cross-functional teams to deliver data projects on time.
- **Leadership:** Guided team efforts and supported decision-making, improving project success rates.
- **Problem-Solving:** Used structured, data-driven approaches to resolve complex technical issues.
- **Adaptability:** Quickly adapted to new technologies and workflows in dynamic environments.
- **Communication:** Simplified technical concepts for non-technical stakeholders to support collaboration.