

SIDDHARTH AGARWAL

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EDUCATION

International Institute of Information Technology - Hyderabad — 9.01 CGPA	2022 – 2026
B.Tech.: Computer Science Engineering	
Pace Junior Science College — 89.83%	2022
Class XII: HSC Board (Maharashtra)	
Gokuldham High School — 98.5%	2020
Class X: Indian Certificate of Secondary Education	

Experience

Oracle [OCI (Oracle Cloud) Intern]	May. 2025- July 2025
<ul style="list-style-type: none">Developed an API to evaluate OCI Sign-On policy configurations, providing detailed insights into matched policies, matched/unmatched rules, and break-glass scenarios.Improved administrator confidence and reduced support tickets by enabling detection of any policy misconfigurations.	
Perceptive Analytics Pvt Ltd. [Language Input Development Intern]	Feb. 2024- July 2024
<ul style="list-style-type: none">Created front-end and back-end of a Chrome extension to auto-complete Telegu sentences written by the users in the browser.Javascript based front-end to monitor user input and display model output.	

Relevant Coursework

• Data Structures and Algorithms	• Computer Systems Organization	• Data and Applications
• Introduction to Information Security	• Operating Systems and Networks	• Statistical Methods in AI
• Software Programming for Performance	• Probability and Statistics	• Computer Graphics
• Distributed Systems	• Computer Vision	• Digital Image Processing

PROJECTS

Onion Routing Network
<ul style="list-style-type: none">Developed a Tor-inspired network with multiple encryptions, randomized path selection, traffic analysis resistance using random packet padding, session management and adaptive load balancing.Achieved 25% lower response time with adaptive load balancing and secured communication using RSA-4096 and AES-256 encryption
Network File Server
<ul style="list-style-type: none">Built a distributed network file system in C with a naming server, multiple storage servers, and client interfaces.Contributed to functionalities like redundancy, concurrent client access through multi-threading, error handling, efficient server-side search, and client-side file and directory operations such as reading, writing, creating, deleting and copying.
C Shell
<ul style="list-style-type: none">Implemented a Linux shell in C from scratch, incorporating features such as fetching man pages, piping, I/O redirection, command history, handling foreground/background processes, and interrupts.
Strife – Payment Gateway Simulation
<ul style="list-style-type: none">Built a gRPC-based distributed payment system interfacing clients with multiple bank servers, implemented in Go.Implemented TLS-based authentication, role-based authorization, idempotent transactions, offline queued payments, and atomic cross-bank transfers with 2PC + timeout handling.
BaseMLib
<ul style="list-style-type: none">A foundational library implementing classical and deep learning algorithms from scratch, including MLPs, KNN, GMMs .

SKILLS

Languages: C, C++, Python, Go, Java, x86 Assembly, Javascript, HTML/CSS
Backend: REST, Threading , OpenMP, gRPC, Sockets, SQLite, MariaDB, Flask
Tools: Linux, Git, Github, Bash, CMake

ACHIEVEMENTS

<ul style="list-style-type: none">JEE Advanced Rank: AIR 997JEE Mains: 99.87 percentile (AIR 1215)Megathon: Led the team to secure a spot at the finals of Hyderabad’s largest state-level hackathon.
