

RAADHES CHANDALURU

4th Year Computer Science Honours IIT Madras

CGPA: 9.69/10 GitHub Mail LinkedIn Website
Phone Number: (+91) 7702866299

Education

Indian Institute of Technology Madras

B. Tech - CSE: **CGPA: 9.69/10**

IIITJEE Junior College & School, Madhapur

Class 12: **97.16%**; Class 10: **CGPA: 10/10**

Chennai, TN

Nov '22 - Aug '26

Hyderabad, TS

May '19 - Jun '22

Relevant Experience

Optiver Services B.V

Quantitative Trading Intern

- Achieved **highest Sharpe ratio** among 21 Quant interns in research project by trading the spread of QQQ - SPX options based on EMA analysis.
- Developed pipeline framework to filter volatility curve data, calendar visualiser for several 100 expiries, strategy performance analysis code, and video-based volatility curve visualiser.

Amsterdam, NL

May '25 - Jul '25

Tower Research Capital, North Moore

Quant Dev Intern (Received return offer)

Gurgaon, IN

Dec '24 - Jan '25

- Built a historical data feed in C++; 2-10x improvement on simulations.
- Optimised with async threads, SIMD, inlining, unrolling, branch flags, and modification of data storage utilising profiling tools such as perf and valgrind.
- Gained expertise in shell scripting, CMake, and working on large codebases.

Jane Street Capital, LLC

SEE : IIT Program

Hong Kong SAR

Dec '23

- Among 6 students selected from IIT Madras (~45 from IITB, IITD, IITM).
- Built the backend and UI for a Game with OCaml and its libraries.

Teaching Assistant, Data Structures Lab

Aug '25 - Present

Major Technical Projects

Linux system calls

Course Project - Prof. D Janakiram

Sep '24 - Dec '24

- Independently modified, compiled and booted (qemu and oracle vbox) linux 5.19 and 6.0.7 kernels with 4 custom syscalls.
- Collaborated in designing 20+ memory, file and process related syscall wrappers and integrated with user-space hooking.

Cache Oblivious Algorithms

Project under Programming Club, CFI

May '23 - Apr '24

- Accelerated matrix multiplication using **tiling optimisation**, achieving a maximum time improvement of 64.5% on matrices of size 1500 x 1500.
- Implemented the **Cache Oblivious Priority Queue** based upon a **research paper** and tested it upon Dijkstra and Prims algorithms.

Data Science

Course Project - Prof. Ramanathan

Jan '24 - May '24

- Implemented models for **Generic Neural Network**, **K means Clustering**, **Logistic Regression**, **Linear Regression** from scratch.
- Leveraged sklearn **Support Vector Classifier** model to classify digit images with 99% accuracy and the Iris dataset with 79% accuracy.

Undergraduate Research Project

Project - Prof. Rupesh Nasre

Aug '25 - Present

- Researching the implementation of louvain community detection algorithm.

EBPF Warden

Course Project - Prof Chester Rebeiro

Apr '25 - Jul '25

- Monitored syscalls using EBPF to detect malicious activity.
- Prevented fork bombs with process termination & rate limiting.

Matching Engine for Market

Personal Project

May '24 - Jun '24

- Developed a simple matching engine for a market server and created a terminal-based client to place buy & sell orders in Java.

Backend and UI for games

Personal & Course Mini Projects

- Built an **unbeatable** tic-tac-toe bot with an original algorithm.
- Built a browser playable 2048 game using **javascript**, **HTML** and **CSS**.
- Built a real time **client-server** ping pong game for 2 players.
- Built a Mario PC game with python's pygame library.

Coding Achievements

- Highest Rated 4th year student at IITM on Codeforces with a rating of **1942 (Candidate Master)**.
- Max Rating of **2062 (5 Star)** on CodeChef.
- Among 33 Indian teams in **ICPC Asia West Finals** 2025.
- India Rank 17** and **Top IIT Madras team** in ICPC Amritapuri Regionals Dec '24. Only 2026 graduating team to ever proceed to regionals from IITM.
- Secured **India Rank 10** and **Global Rank 85** among **10K+** participants in Codeforces Round 896 (Div 2).
- Team Rank 1** in Freshie Coding Contest 2022.
- Qualified for phase 2 of MetaHackerCup in 2023 and 2024.

Scholastic Achievements & Others

- Highest Score in **System Design** and **Computer Organisation & Architecture** courses (among all CS22B' students).
- Rank 16 in KVPY 2020 among **50K+** students.
- Rank 143 in JEE Adv. '22 among **150K+** candidates.
- Rank 310 in JEE Mains '22 among **1 million+** candidates.
- Regional Rank 1, All India Rank 3 among **16K+** participants in NAEST round 2 & final respectively (Experimental Physics test).
- Secured **Rank 3** in Telangana state in NTSE Stage - 1. Awarded NTSE scholarship based on NTSE stage - 2.
- Top 30** in Telangana State in IOQM 2021 and selected for INMO (Indian National Mathematical Olympiad).
- Secured **India Rank 4**, **Global Rank 15** and **India Rank 2**, **Global Rank 28** in Physics Brawl Charles University 2022, 2023 among 3.5K+ contestants Globally.

Positions Of Responsibility

Programming Club, CFI

CP Guild Lead

Apr '25 - Apr '26

Strategist

Apr '24 - Apr '25

Coordinator

May '23 - Apr '24

- Selected & Instructing 35 guild members on advanced topics including DSU, suffix arrays, persistent segment trees etc.
- Instructed **500+** attendees in summer programming camp '23 on greedy algorithms, prefix sums, frequency arrays & **150+** students in sessions on Strings and Range Queries.
- Automated coordinator practice analysis** by developing a google apps script integrated with **Codeforces API**, **Gsheets API**, and visualised on **google sites**.
- Set and tested original problems for 10+ coding contests.
- Managed the club's YouTube channel with **150K+ views** & **4.5K+ subscribers**. Co-created 16+ editorials in tenure.

CS Placement & Internship Cell, IIT Madras

Deputy Coordinator

May '23 - Apr '24

Assisted 10 students and smoothly coordinated with 7 companies during Internships & Placement drives.

Relevant Coursework

Computer Science

- Design & Analysis of Algorithms
- OOPS Lab
- Computer Organisation and Arch
- Secure Systems Engineering
- Database Management Systems
- Cloud Computing**
- Networks ; Wireless Networks**
- Compiler Design
- Operating Systems
- Data Science
- Machine Learning
- Deep Learning
- GPU Programming
- Program Analysis**

Others

- Probability, Statistics and Stochastic Processes
- Accounting and Finance
- Multivariable Calculus
- Econometrics
- Statistical Inference

Skills

- Languages:** C++, C, Python, RISC V asm, OCaml, L^AT_EX;
Familiar with: HTML, Java, JavaScript, HDL Verilog (basics), x86 asm.
- Miscellaneous:** C++ STL; Flex & bison; Git; Gdb
Familiar with: Numpy, Pandas, Matplotlib, Scikit-Learn.

** : Ongoing