

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 [📍](#) Chennai, TN
B. Tech - CSE: **CGPA: 9.69/10** [📅](#) Nov '22 - Aug '26
- FIITJEE Junior College & School, Madhapur [📍](#) Hyderabad, TS
Class 12: **97.16%**; Class 10: **CGPA: 10/10** [📅](#) May '19 - Jun '22

🔧 Relevant Experience

Optiver Services B.V [📍](#) Amsterdam, NL
Quantitative Trading Intern [📅](#) May '25 - Jul '25

- 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.

Tower Research Capital, North Moore [📍](#) Gurgaon, IN
Quant Dev Intern (Received return offer) [📅](#) 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 [📍](#) Hong Kong SAR
SEE : IIT Program [📅](#) 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.S

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

Others

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

** : Ongoing

🔧 Skills

- Languages:** C++, C, Python, RISC V asm, OCaml, \LaTeX ; Familiar with: HTML, Java, JavaScript, HDL Verilog (basics), x86 asm.

- Miscellaneous:** C++ STL; Flex & bison; Git; Gdb
Familiar with: Numpy, Pandas, Matplotlib, Scikit-Learn.