ADITYA TRIVEDI

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EDUCATION

Indian Institute of Technology Guwahati, India	Jul 2019 - Present
Bachelors of Technology in Computer Science and Engineering	GPA: **9.43/10.0**
Minor in Product Design	GPA: 10.0/10.0

Relevant Coursework: Computational Geometry, Data Structures and Algorithms, High Performance Computing, Deep Learning, Machine Learning, Networks, Operating Systems, Databases, Computer Architecture, Probability, Discrete Mathematics, Optimization, Number Theory, Linear Algebra

EXPERIENCE

Sprinklr	May 2022 - July 2022
Product Engineering Intern	Gurgaon, India (Remote)

- Built API **Rate Limiting** Library from scratch.
- Implemented various algorithms in Java and used **Redis** as data store.
- Simulated user scenarios using **Gatling** and achieved ∼**1 ms** response times.

MIST Lab, Polytechnique Montreal	Apr. 2021 - Aug. 2021
Summer Intern	Montreal, Canada (Remote)

- Assisted in development of a Software-In-The-Loop simulator for CogniFly drones.
- Created a new target in the iNavigator Flight Controller
- Modified Python libraries by replacing the use of serial protocols by **Sockets**, to make it TCP signal compatible.

PROJECTS

"graph.gg" - Graph Network Visualiser	git.io/graphgg	Live Website

- Built a **Django** based web-app to visualise network relationships between Indian celebrities through graphs.
- Implemented visualisation of Shortest-Path, Mutual Friends and Friend Recommendations.
- Scraped Wikipedia data and built **Neo4J** graph DB which was visualised using **React** libraries.

Internship Portal	git.io/Shodh

- Developed A **Django** web-app to manage allotment of B.Tech Projects & Research Interns.
- Added functionality of searching projects & opportunities by name, tag and branch.

Quadtree Visualiser	git.io/qtree	Live Website

- Built a **p5.js** based web app to show working of a quadtree
- Users can **interact** and adjust various parameters to populate quadtrees

Other Projects

- **Placement Portal** ⬈: Developed an **Android** app to manage placement activities.
- **Queuing in a Switch** ⬈: Implemented various router queuing algorithms in C++ and simulated traffic.
- **xv6 Toy Operating System** ⬈: Implemented scheduling and memory allocation for a toy OS.
- **Network Simulation with ns-3** ⬈: Implemented a 3 node network with 2 TCP variants.
- **Socket based POS** ⬈: Developed a command line Point of Sale application

ACHIEVEMENTS

Course Merit, **AS Grade** in Computer Networks, Implementation of Prog. Languages Lab	2021,22
Secured Global **Rank 9**, India **Rank 3** among 2056 participants in CodeChef Starters 53B. (TOP **0.5%**)	2022
Rated Expert on Codeforces (Highest Rating - **1772**)	Profile Link: trivedi
Rated 5⋆ on CodeChef (Highest Rating - **2015**)	Profile Link: adityat25
Secured a **Top 1600/35000** finish in Facebook HackerCup & Qualified for Round 2. (TOP **5%**)	2021
ACM-ICPC Regionalist '20, secured **India Rank 251** and 268 in Amritapuri Preliminaries and Regionals respectively.	2021
Awarded **POINT Summer Research Scholarship** by Polytechnique Montreal	2021
Secured Team **Rank 5** among 866 teams in Codemates x1 (Team Contest). (TOP **1%**)	2020
Secured **Global Rank 71** among 12000+ contestants in Codeforces Round #690. (TOP **0.5%**)	2020
Among **Top 35** in India to be shortlisted for the Aditya Birla Scholarship	2019
All India Rank 439 in JEE Advanced among 0.16 million candidates.	2019
All India Rank 689 in JEE Mains among 1.14 million candidates. (TOP **0.06%**)	2019
All India Rank 3 in Technothlon Prelims, IIT Guwahati. Also the City and State Topper	2018

TECHNICAL SKILLS

Programming Languages : C++, C, Python, Java
Web Development : Django, React, p5.js, JavaScript, HTML, CSS
Miscellanous : LaTeX, Git, Docker, Android Studio, Redis, Gatling, SpringBoot, Neo4J, Basic Shell Utilities

POSITIONS OF RESPONSIBILITY

General Secretary, Computer Science and Engineering Association:	2022 - 2023
Led a team of 19, organised various talks and events for the IITG community.	

Technical Secretary, Umiam Hostel:	2021 - 2022
Part of the Hostel Management Committee	