Ganesh Aggarwal

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CSE Graduate, IIT Ropar

GaneshAggarwal

in ganesh1085

EDUCATIONAL QUALIFICATIONS

Year	Qualification	Institution	Performance
2019-2023	B.Tech in Computer Science Engineering	Indian Institute of Technology, Ropar	8.32 /10.0
2019	Class XII (CBSE)	Salwan Public School, New Delhi	95.6%
2017	Class X (CBSE)	Salwan Public School, New Delhi	10.0 /10.0

WORK EXPERIENCE

Microsoft | Software Engineer

July 2023 - Present | Hyderabad, India

- Tech stack: Java, Kotlin
- Working in the Office Mobile Android Team (E+D org) and contributing to improvements in the Microsoft 365 App which is a one stop solution for all file types(word, excel, ppt, pdf, image, etc.)
- Gained knowledge about android application architecture, activity lifecycle and importance of threading to make optimized apps
- Developed debugging skills and resolved bugs to provide better user experience
- Owner of First Run Experience Screens shown on fresh install
- Worked on capturing feedback (including diagnostics/logs) within the app aiding all developers in efficient issue resolution
- Worked on performance analysis of the app and solved major regressions seen in production (user) data.
- Acquired knowledge about app crash management and also learnt how feature rollouts are performed using Feature Gates

Microsoft | Software Engineering Intern

May 2022 - July 2022 | Bangalore, India

- Worked in the "MCIGET Energy" team which is a child team of "Cloud & Artificial Intelligence". The "MCIGET Energy" team works on understanding the problems and opportunities in the Oil & Gas industry and providing necessary solutions (PaaS such as "Project Oak Forest")
- Gained information and knowledge about the scale and the importance of data in the Oil & Gas industry
- Explored a lot of Azure Products such as Project Oak Forest(ongoing), Azure Purview, Data Factory, Storage Account, ADLS, etc.
- Worked on making a connector which can connect the ongoing "Project Oak Forest" account to a "Azure Purview" account so that the functionalities and features of Purview can be leveraged in project Oak also
- Explored different approaches for the connector and successfully made them using Python
- Contributed actively in the critical decision making meetings which focused on the design of the connector

ACHIEVEMENTS

- Achieved India Rank 182 (Global Rank 398) in Round B and India Rank 255 (Global Rank 467) in Round C of Google Kickstart 2021
- ACM ICPC 2022-23 Regionalist: Ranked 46 in Amritapuri Regionals, Ranked 78 (1st in college) in Amritapuri Preliminary Round
- ACM ICPC 2021-22 Regionalist: Ranked 29 (1st in college), Ranked 14 in Kanpur Region in Preliminary Round
- ACM ICPC 2020-21 Regionalist: Ranked 55 (1st in college) in Gwalior-Pune Regionals, Ranked 122 in Amritapuri Preliminary Round
- Codeforces [handle: Ganesh aggarwal]: 99.41 percentile in India, Max Rating 2025 (Candidate Master), with active participation
- CodeChef [handle: ganesh 1085]: 99.92 percentile in India, Max Rating 2285 (6*), with active participation
- Achieved Global Rank 91 (99.39 percentile) in Round #736, Global Rank 149 (98.23 percentile) in Round #681 (Div. 2) in Codeforces
- Achieved India Rank 6 (Global Rank 33) in Oct. Cookoff 2020, India Rank 20 (Global Rank 41) in May Lunchtime 2021 in CodeChef
- Secured All India Rank 1852 in JEE Advanced 2019 among 230k shortlisted candidates
- Secured All India Rank 2319 in JEE Mains 2019(100 percentile in Chemistry) among 1.2 million candidates

PROJECTS

Purchase Management Portal (Course Group Project - CP301)

[Github]

- Tech Stack: React, Node.js, Fluent UI and Chakra UI and RDMS: PostgreSQL
- Firebase and jsPDF APIs are used and Nginx, PM2 and Azure are used for deployment
- Made a Web App to digitize the work of the purchase section of our college. Our work was highly appreciated by the invoked stakeholders and is anticipated to replace the existing paper-based system to a great extent in the future
- Forms identical to the existing hardcopy forms are generated and proper hierarchy of approvals/rejections is followed

RISC-V ISA Simulator (Course Group Project - CS204)

[Github]

- Made a python based RISC-V ISA simulator and made a GUI for the same using PyQt5
- Implemented both 5 stage pipelined and unpipelined models, Data stalling, Data forwarding etc. for Data and Control Hazards
- Implemented cache memory and used LRU Replacement policy for reading, and Write Through and No Write Allocate policies for writing

Algorithm Visualiser (Group Project)

[Github]

- Made a Web App in Angular which helps the user visualise many important sorting, searching and path finding algorithms
- Visualized sorting/searching algorithms (e.g., Heap sort, Merge sort, Binary search) with customizable animation speed/array size, and pathfinding algorithms (DFS, BFS, A*, Dijkstra) alongside maze generation techniques (Recursive, Prim's).

RELEVANT COURSEWORK

Computer Science - Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management, Computer Architecture, Discrete Mathematics, Digital Logic Design, Programming Paradigms and Pragmatics, Introduction to Programming

Mathematics - Probability and Statistics, Differential Equations, Calculus, Linear Algebra

SKILLS

Programming - Java, Kotlin, C/C++, Python, RISC-V

Web - React, Angular, HTML, CSS, JavaScript/Typescript (preliminary)