

Ayush Rathore

[LinkedIn](#) [GitHub](#) [Portfolio](#) [LeetCode](#)

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EDUCATION

Bachelor of Technology - Computer Science and Engineering

Rajiv Gandhi Institute of Petroleum Technology
(An Institution of National Importance along the lines of IITs)

Dec 2020 - Jun 2024

CPI: 8.52*

Intermediate - Matriculation

Burgess English Hr. Sec. School

Jun 2017 - May 2019

CGPA: 9.8

PROJECTS

Saarthi - NodeJS, ReactJS, MongoDB, Firebase, WebRTC, SocketIO - NIT Rourkela Hackathon



- Constructed an education platform with courses fetched from YouTube REST API with a progress tracker and notes sharing community inventory that increased productivity by 10%.
- Developed a decentralised peer-to-peer 2-way video chat web application Sampark to interact with peers and address doubts.

Web Tools - Flask, Python, Script, Bash, Django - IIT Indore Hackathon



- Composed Upastithi, a Web App performing CRUD operations to digitally log attendance of RGIPT students, deployed and in use, enabling faculties, 5+ tutors and 300+ students to log, monitor & track attendance.
- Implemented cpp2latex tool to convert C++ functions to LaTeX pseudo-code, reducing time spent on writing pseudo-code by 90%.
- Devised DIC, a GDB-based bash and python script to get instruction analysis for a given program with 100% precision.

Automaton - AWS, bash, GitHub Actions, Nginx, Docker - CI/CD Pipeline



- Implemented CI/CD pipeline for 2 projects, leveraging AWS infrastructure, GitHub Actions, and nginx for auto-deployment with automated testing resulting in zero downtime.
- Developed Build Automation Framework for 4+ projects, automating the software build process, from code compilation to direct usable builds resulting in streamlined development.

AR_Beast - Linux Kernel, Android, C, App, Java - Open Source



- Built Custom Linux Kernel for 4 Android Devices, which helped 9000+ users to get an optimized device experience.
- Coded device-specific Thermal control driver & Current Control driver in C, which reduced heating, increased performance by 10% and improved charging time by 30 min.
- Overhauled Android App Kernel Adiator to easily configure features offered by the kernel, reaching over 30,000 downloads.

Collaborated in 10+ Open Source Projects on Software Development, Scripting, Android, and Linux Kernels and participated in 3+ open source programs.

POSITIONS OF RESPONSIBILITY

Computer Programming Tutor - RGIPT

- Taught programming in C and Python to over 57 junior students, guided in solving 100+ problems of basic Algorithms.

KODE Club - Science & Technical Council

- Lectured on Open Source Development, Git, and GitHub and tutored workshops for over 100 attendees.

Technical Head - ACM - SC

- Automated bulk emailing using scripts and designed the official website, leading to 99%+ time savings.
- Composed Competitive Programming questions for Coding Contests contests and mentored over 50 students.

TECHNICAL SKILLS

Professional Certifications: AWS Cloud Technical Essentials, IBM DevOps & Software Developer

Languages: C++, C, Python, SQL, HTML, CSS, JavaScript

Tools/Frameworks: Git, GitHub, Flask, NodeJs, ReactJS, Django, Docker, Kubernetes

Courses: Database Management, Data Structures, Algorithms, Networking, Web Technology, Cloud Computing

ACHIEVEMENTS

- Solved 300+ Data Structures and Algorithmic Problems on LeetCode, GeeksforGeeks, Codeforces.
- Placed in the top 23 out of over 5,000 participants in the NIT Rourkela (HackNITR) hackathon for the project, Sampark.
- Led a team of 3 to victory out of over 500 participants in the IIT Indore (Hackistica) hackathon for the project, cpp2latex.
- Regionalist in the 2020-21 ICPC Asia Amritapuri Doublesite & ICPC Asia Gwalior-Pune Programming Contest.
- Qualified for the 2021 Google CodeJam Coding Competition, scoring 59 points.
- Awarded Merit-Cum-Means Scholarship for the Top 10%* students in the CSE batch.
- Achieved a top 1.84% rank in the IIT-JEE Advanced 2020 exam.

