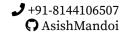
Asish Kumar Mandoi

■ luckyasish13@gmail.com in Asish Mandoi Junior Undergraduate, Electrical Engineering Indian Institute of Technology Kanpur



EDUCATION

Year	Degree/Certificate	Institute	CPI/%
2019 - 2023	B.Tech in Electrical Engineering	Indian Institute of Technology Kanpur, India	7.3/10
2019	Standard XII (CBSE Board)	MBS Public School, Bhubaneswar, India	93.8%
2017	Standard X (CBSE Board)	DAV Public School, Bhubaneswar, India	10/10

ACHIEVEMENTS & HONOURS

Programming Achievements

• Google Kickstart: Globally ranked 1636, 1055, 976 in Round E 2021, Round D 2021, Round H 2020

2020, 2021

• Facebook Hacker Cup: Globally ranked 1967, 2769 in Round-1 out of 34000+ total contestants

2020, 2021

Scholastic Achievements

· Secured All India Rank 3592 in JEE-Advanced out of 220,000+ shortlisted candidates

2019

• Achieved All India Rank 7480 in JEE-Main out of 0.9 million+ candidates

2019

- Among National Top 300 to be selected for Indian National Chemistry Olympiad $\[\]$, HBCSE

2018-19

• Secured All India Rank 322 in KVPY [2] out of 50,000+ candidates and selected for KVPY Fellowship by Govt. of India, and IISc Bangalore, one of the most prestigious science scholarships in India

2017

PROJECTS & EXPERIENCES

IITK-Coin May '21 – Jul '21

Backend of a pseudo-currency system to be used in the IITK campus | Programming Club, IIT Kanpur GitHub ਟ , DockerHub ਟ

- Developed the backend from the ground up using Go programming language and SQLite for database management Secured the endpoints by incorporating user authorization using JWTs, and built an additional layer of protection
- Secured the endpoints by incorporating user authorization using JWTs, and built an additional layer of protection
 against hacks by employing the Bcrypt algorithm to hash and salt passwords
- · Added a transaction tracking functionality for administrators and implemented an OTP based confirmation system
- Increased server efficiency by handling up to 300 concurrent transactions per second by utilizing the WAL journal mode in SQLite and Redis for caching

Crio Winter of Doing

Jan '21 – Feb '21

CWoD ♂

Externship program for developers | Crio.Do

- · Learned and implemented introductory concepts of HTTP, REST API, AWS, Linux, Git, HTML, CSS, JavaScript
- Launched an instance of Amazon EC2, deployed the backend server of the QEats (dummy) android app, and connected the app to its backend server
- Sorted cities based on the popularity of the QEats android app by analyzing 10k+ logs using Linux shell techniques
- Deployed the frontend and the backend of my Personal Portfolio ☑ web application; Fetched my repository descriptions in real-time by integrating this application with my GitHub account
- Among the final 1200 out of 10,000+ total applicants to clear the coding round and reach Stage-2B

Algorithms based on Maths

Apr '21 - Jun '21

Stamatics, IIT Kanpur

• Analyzed, implemented, and practiced algorithms like (efficient) prime factorization, calculating factorials of large numbers, and **polynomial hashing** in C++

String Theory for Beginners

May '20 - Jul '20

Science Coffee House IITK 🖸 , mentored by Gurmeet Singh, Ph.D. student at IIT Kanpur

- Acquired a qualitative understanding of early modern physics and **String Theory** by doing a thorough study of the book *String Theory for Dummies* by Andrew Z. Jones and participating in weekly discussions with the mentor
- Researched and performed detailed analysis on exciting scientific topics like blackhole kinematics 2
- Contributed to the final report 2 for the project describing String Theory in a nutshell Report

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Go, MATLAB, HTML5, CSS3, JavaScript, PHP

Technologies/Frameworks: Node.js, Express, MySQL, SQLite, Redis, Bash, Git, Docker, LaTeX, Qiskit, AutoCAD

MISCELLANEOUS

• Implemented Grover Search algorithm by designing a Quantum Circuit using Qiskit library in Python

GitHub ♂

• Actively participate in Competitive Programming contests [max. rating 1468 on Codeforces]

CF-profile ♂

• Secured an A* with 99.5% marks in the course - Manufacturing Processes II for good teamwork and creativity

• Served as an National Cadet Corps (NCC) cadet at IIT Kanpur for a year

RELEVANT COURSEWORK

Quantum Computing[a]Fundamentals of Computing Data Structures and Algorithms $^{[a]}$ Probability and Statistics

Intro to Machine Learning $^{[i]}$ C Language & Society