

Rajat Singh

Github: github.com/rajatsinghchauhan

Leetcode: [theycallmecalm](https://leetcode.com/theycallmecalm)

Linkedin: linkedin.com/rajat-singh

Email: rajatchauhan2502@gmail.com

Mobile: +91-9205704576

EDUCATION

- **Indian Institute of Information Technology** Gwalior, India
Integrated Post Graduate(B.tech + M.tech); G.P.A: 8.0 *August 2019 – May 2024*
- **Jawahar Navodaya Vidyalaya** Noida, India
Senior Secondary(CBSE); Percentage: 94

COURSEWORK

- **Data Structure and Algorithms** • **Database and Management System** • **Computer Networks**
- **Operating System** • **Object Oriented Programming with C++** • **Machine Learning**



EXPERIENCE

- **Travel Creators** London, UK (Remote)
Software Engineering Intern *January, 2023 - April, 2023*
 - **Third Party payouts:** Successfully integrated third-party payouts via Stripe Connect and Stripe webhooks, fully automating payment transfers for creators through cron jobs. Developed and maintained over 15 APIs for payment processing.
 - **Trips and Creator:** Built the entire backend for Trips and Creator sections from scratch with an impact on User-base of 10,000 active users, implemented authentication, created model, controllers, routers, and stored real-time data in MongoDB.
 - **Live-Code:** Was responsible for maintaining the AWS ec2 machine for frontend and backend to keep the latest version of code live 24/7 so that teams across different time zones can work seamlessly. Used pm2 as the process manager.
- **Synergy Classes** Noida, India (Remote)
C++ Instructor *February 2021 - September 2021*
 - **Intro to C++:** Taught multiple batches of 100+ students over a period of 8 months (1200+ Students) a basic course on Introduction to Computer Programming using C++.
 - **Data Structure and Algorithms:** Taught a course on Data Structure and algorithm with an impact on more than 1000+ students. Mentored students in navigating through over 300+ DSA problems, cultivating a profound understanding and fostering robust problem-solving intuition.
 - **Others:** Tried raising awareness among students of Higher secondary and Senior secondary about Computer Programming.

TECHNICAL SKILLS

- **Languages:** C++, JavaScript, Typescript, C, HTML, CSS, SQL, GraphQL
- **Frameworks and Libraries:** React.js, Node.js, Express.js, Redux, Bootstrap
- **Database:** MongoDB, MySQL
- **Developer Tools:** Git, AWS-ec2, Github, RestAPI, VS Code, Stripe, Stitch.money Payment Gateway, Google colab, Kaggle

PROJECTS

- **Dukaan: A full fledged ecommerce store:** 
 - Developed a full-stack web application using React.js, JavaScript, Express.js, Node.js, and MongoDB with 20+ api endpoints.
 - Implemented more than 10 user features, including order placement, product reviews, new user onboarding, password reset, authentication and authorization using JWT tokens, payment integration using stripe.
 - Made web-application completely responsive, integrated an Admin Dashboard, enabling capabilities such as delivery status tracking and seamless product management, including creation, updates, and deletions.
- **Enhancing Decision Making Policies using Reinforcement Learning for Cognitive Radio Applications:** Ongoing
Under : Prof. Pinku Ranjan 
 - Using Multiplayer Multi-armed Bandit Algorithm to maximize the cumulative reward of the players to achieve Logarithmic Regret.
 - Implementing Nash Equilibrium (Game Theory) in Synchronized Communication to improve the robustness against Selfish Nodes in Decentralized Cognitive Radio Systems.

POSITION OF RESPONSIBILITY AND ACHIEVEMENTS

- Qualified GATE'23 with AIR 5k in 76k Candidates
- Executive Member, E-CELL IIIT Gwalior
- Solved 700+ Data Structure and Algorithm problems across various coding platforms.