Atul Ranjan

Third-Year Undergraduate

Department of Metallurgical and Materials Engineering

Contact No: (+91) 7004123108

E-mail: atulranjan789@gmail.com

ACADEMIC PROFILE

Year	Degree/Certificate	Institute/School, City	CGPA/Percentage
2025	BTECH	Indian Institute of Technology Kharagpur	8.42
2021	XII: CBSE	DAV Kapildev Public School	85%
2019	X: ICSE	Mount Carmel School	90

INTERNSHIP & PROJECT

Backend Development Intern | SpotBuzz   [Aug 2023-Nov 2023]

- Integrated social media platforms, including **Twitter** and **Facebook** for direct post uploads and data retrieval.
- Implemented high-speed routing using **Go Fiber**, improving backend responsiveness and user experience.
- Managed **PostgreSQL** databases, ensuring data integrity and supporting company operations.

Development Team Member | InterIIT Tech Meet 12.0   [Oct 2023-Dec 2023]

- Engineered backend solutions for an **AI chatbot** and educational platform, leveraging **AWS RDS**, **Lambda**, and **EC2** for deployment, and enhancing user interaction and operational efficiency.
- Spearheaded complex projects for **DevRev** and **Trumio**, utilizing **Flask**, **FastAPI**, PostgreSQL, and MongoDB to deliver tailored backend solutions aligned with strategic objectives.
- Won **gold** in both the High-prep events of Trumio and DevRev and also won the overall gold as a part of the IIT KGP contingent.

Netflix REST-API

- Developed and deployed a Netflix-inspired RESTful API using **Go programming language** and Docker.
- Implemented essential features such as "mark as watched," "add movies," and "delete movies.
- Leveraged **MongoDB** to establish a reliable and efficient database connection, ensuring seamless storage.

User Authentication System

- Developed a secure user authentication system utilizing the Go programming language, enhancing the overall security and reliability of the application.
- Implemented a RESTful API with robust endpoints for user registration, login, and token-based authentication, ensuring seamless integration with client applications.
- Employed industry-standard encryption techniques and best practices, such as password hashing and token validation, to safeguard user credentials and protect against unauthorized access.

In memory key value database

- Developed and deployed an In-memory key-value datastore using Go programming language and **docker**.
- Utilized **Go routines** and channels to handle concurrent operations, ensuring thread-safe access to the datastore.
- Demonstrated proficiency in continuous integration and deployment **(CI/CD)** practices by implementing an automated build and deployment pipeline.

COMPETITIONS/CONFERENCES

Finalist | Invest-o-spective, IIT Kharagpur   [Jan 2022]

- Selected as a finalist in the highly competitive Invest-O-Spective pitching competition at IIT Kharagpur in 2022
- Created compelling pitching decks and successfully pitched my idea to three venture capitalists

SKILLS AND EXPERTISE

Programming Languages: C | GO | Python | Java | CSS |HTML |SQL | JavaScript

Operating Systems: Microsoft Windows | Linux(Ubuntu)

Softwares: : Matlab | Git | Github | Mongodb | Docker | AWS Lambda | AWS RDS |AWS EC2 |Postgres

Frameworks and Libraries: Pandas | NumPy | GORM| GORILLA-MUX| HTTP | Flask |FastApi | Django |Nextjs | React

POSITIONS OF RESPONSIBILITY

Secretary Sports | Pandit Madan Mohan Malaviya Hall Of Residence   (Aug 2022 —May 2023]

- Successfully organized 10 tournaments in the hall along with 8 other secretaries for more than 2000 borders
- Successfully organized an intra-hall cricket tournament for over 60 teams
- Created a Proposal for a new cricket pitch in the hall and got it approved
- Utilized a budget of over 8 lacs.

EXTRACURRICULAR ACTIVITIES

Technology	• Five star in SQL in Hackerrank.
Social-Culture	• Part of Silver winning team in illumination 2022.
	•Participated in inter hall rangoli competition and secured 4th position overall.