# Ansuman Das

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## EDUCATION

**IIT KHARAGPUR**
Integrated BS MS
2017 - 2022

**SIBPUR S.S.P.S VIDYALAYA**
Howrah, West Bengal
2016

## LINKS

Github:**ansumandas@github.com**
LinkedIn:**linkedin.com/in/ansuman-das-tech**

## COURSEWORK

Programming and Data Structures
Introduction to Internet
Artificial Intelligence
Machine Learning Algorithms

## SKILLS

### LANGUAGES
Java script | Type script | Python | C++ |
Java | Kotlin | SQL

### FRAMEWORKS
Express | Node | Spring Boot | Docker |
Passport | Jest | SuperTest

### DATABASE
MongoDB | PostgreSQL | MySQL | Redis

### TOOLS
Git | AWS | GCP | Postman | VS Code |
IntelliJ IDEA

### SOFT SKILLS
Adaptability | Flexibility | Communication |
Critical thinking

## CO-CURRICULARS

- Represented VS Hall of Residence in the Sports General Championship held in 2019
- Finalist in the ZEEL Football League
- Responsible for managing the budget of PHY society for social and cultural events throughout the year

## EXPERIENCE

**ZEE** | SDE-1
Jul 2022 - Present | Bangalore, Karnataka

- contributed to the development and enhancement of cutting-edge software products for **10+** million daily active users.
- Collaborated with a cross-functional team in the successful implementation of comments, resulting in a **20%** increase in sessions per user
- Implemented agile methodologies, integrating cross-functional teams and facilitating daily stand-ups, sprint planning, and retrospectives, resulting in a **25%** increase in team efficiency
- Contributed to the implementation of **analytics** for the Zee5 application
- Worked in removing the memory leaks with the help of **Leak Canary** from Zee5 application

**OMDENA** | Lead ML Engineer
Apr 2021 – Jul 2021

- Lead a team of 40 people worldwide to bring the best solutions to real-world problems for the company **OPTIMIZ**
- Iteratively assisted in refining the problem through weekly meetings with the stakeholders
- Held weekly meetings with the team members for planning and presented weekly progress to the partners
- Collectively annotated **300+** images on **Labelbox** and used **YoLoV5** and **MobilenetSSD** for a lightweight deployable solution for Dense Object Detection
- Developed a Python-based **randomizer** to select 3 boxes at random for **cargo inspection**.

## PROJECTS

### E-COMMERCE BACK END

- Constructed a comprehensive back-end for an e-commerce website utilizing **Typescript, JavaScript, Node.js, Express.js, MongoDB**, and **Mongoose** in **MVC** architecture.
- Developed APIs for various functionalities including user registration, user login, product **CRUD** operations, cart services, and order services
- Implemented **OTP authentication** methods, with **Gmail API** and **Firestore**
- Integrated user **JWT** tokens along with HTTPS-enabled cookies to guarantee secure **serverless authentication**.
- Established distinct **RBAC authorization** roles tailored for specific use cases
- Implement **indexing** and **aggregation pipelines** for faster data retrieval
- Created **Redis caching** and **cache invalidation** strategies for faster responses on product APIs
- Created test cases for **testing the APIs** with **Jest** and **SuperTest**
- Created **CI/CD** pipeline with github actions, for automated **lint checks** and **test case checks**.

## PUBLICATIONS

[1] S. Ballav, A. Das, S. Pramanick, and S. Chandra. Plasma shock wave in gamma-ray bursts: Nonlinear phenomena and radiative process. *IEEE Transactions on Plasma Science*, 50(6):1488–1494, 2022.

[2] A. Jain, D. Das, and A. Saxena. Planit: A crowdsourcing approach for learning to plan paths from large scale preference feedback. *Tech Report, ICRA*, in press.