Ujjal Das

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Professional Summary

Backend focused **Full-Stack Engineer** with 5+ years of experience in designing **scalable**, **high-performance** systems, **automation**, and **cloud** infrastructure. Proven expertise in building **distributed** applications using Go, Java, Python, React, AWS, and Kafka. Strong background in optimizing operational efficiency, cost reduction, and mentoring teams in high-impact projects.

Skills

- **Programming Languages:** Go, Java, Python, Typescript, Javascript
- **Frontend Technologies:** React, NextJs, HTML, CSS, jQuery
- **Backend Technologies:** Nodejs, flask, Grpc, Spring Boot, Microservices, API Development
- **Databases:** SQL, Redis, MongoDb, Hbase
- **Messaging & Streaming:** Apache Kafka, Kinesis
- **BigData Cloud:** Hadoop, Map-Reduce, Spark, AWS, Docker, Lambda
- **DevOps Tools:** Bash, Git, CI/CD, Terraform, Distributed Systems

Work Experience

L4 Software Engineer
🏢 Deliveroo 💼 FullStack Developer
Bengaluru, India
August, 2023 - Present

- **Automated** claims processing by developing an **ML-driven worker-based** system for missing item compensation and wrong order claims, integrating **messaging queues** to support analytics and improve user experience, Wrote **Technical Design Documents (TDD)**, implemented **backend/frontend** changes, and **mentored** two interns
- Built a location tracker dashboard for Operations (OPS) to enhance multi-stack order delivery, enabling riders to efficiently collect orders from multiple restaurants, improving network efficiency and reducing rider expenses by 5%
- **Led** the integration of a new cloud contact provider for the Middle East, overseeing **technical implementation**, **product research**, and provider **communication**. This initiative saved Deliveroo £1.2M annually and improved system scalability
- Engineered the integration of Amazon Connect CTR data with a third-party **Quality Management System** (QMS) using AWS Lambda, Kinesis, Kafka, and DynamoDB, improving system **reliability**, **auditability**, and data **accessibility** for analytics and IAM teams
- Developed and **currently own** the Marketplace tool for OPS, consolidating five legacy tools into a unified claims processing system, Built the frontend in **React** and backend in **Go**, leveraging Kafka, DynamoDB, PostgreSQL, AWS Lambda, and Amazon Connect, Responsible for **end-to-end release planning**, **milestone scheduling**, and **go-to-market strategies**, reducing infrastructure costs by £200K/month and improving agent efficiency.
- **Mentored and trained** 26 new hires as a Bootcamp coach, improving onboarding, training, and knowledge transfer with positive feedback from trainees.

Senior Software Engineer
🏢 Goldman Sachs 💼 Backend Developer
Bengaluru, India
December 2022 - August, 2023

- Developing a **new cloud based plateform from scratch** to support firm's all trading activities, My role is to develop new **backend services**, seamlessly integrating them with existing legacy trading systems to facilitate crucial **financial calculations** such as **risk assessment** and **pricing**.
- In addition to writing code for the team, I have taken on various responsibilities such as **mentoring** new team members, conducting thorough **reviews** of pull requests and **technical specifications**, and actively participating in **discussions** regarding technology and product enhancements.

Software Engineer
🏢 Goldman Sachs 💼 BigData Developer
Bengaluru, India
May 2020 - November, 2022

- Utilized the **Hadoop tech stack** to develop advanced **analytical models** for **surveillance** purposes, enabling the monitoring of trading activities and detection of suspicious market behaviors such as insider-trading and wall crossing.
- Played a pivotal role in assisting the firm in identifying and detecting unusual market activities during the **high-volume** period of the COVID-19 pandemic, contributing to the overall risk management efforts.
- Automated numerous legacy processes, resulting in significant **annual savings** of over 1500 man-hours, This achievement earned recognition for my team as one of the most **innovative teams** at GS.

Co-Founder

Byer Pvt Ltd 💼 FullStack Developer

Bhubaneswar, India
October 2019 - March, 2020

- Successfully developed a **full-stack e-commerce website** from scratch, utilizing Node.js, JSX, CSS, jQuery, Bootstrap, Redis, MySQL etc.
- Developed an **Android application** with equivalent functionalities to the website, ensuring seamless user experience across platforms.
- Demonstrated **leadership skills** by recruiting, training, and supervising interns to contribute effectively to the growth of the startup.

Machine Learning Intern

PNB Metlife

Mumbai, India
May 2019 – July 2019

- Designed and implemented an **image processing** pipeline to incorporate robust masking techniques, effectively safeguarding sensitive areas of **KYC documents** in strict adherence to regulatory requirements.
- Developed a **deep learning model** to extract essential data from KYC documents, enabling accurate classification and reconciliation against the database entries.

Automation Engineering Intern

Vasitar Pvt Ltd

Bhubaneswar, India
May 2017 – August 2017

- **Artificial odour generator** - Wrote a python script for automating a mechanism for producing multisensory (4D olfactory effect) experience with optimal rate and correct proportion of odour diffusion to mitigate the real-life scenario using raspberry-pi, python and ultra-sonic diffusers in a closed space (for example movie theatres). Tested the system in a 10X10 ft room with a capacity of two people. Demo **here**

Public Relationship Intern

Cognitio Education

Guwahati, India
December 2016 – January 2017

- Organized lectures, contests for school students to increase awareness about competitive examinations.

Education

Indian Institute of Technology, Bhubaneswar

B.Tech in Electrical Engineering

June. 2016 - May. 2020
CGPA : 7.41/10

Research

IIT Guwahati

Research fellowship programme

Guwahati, India
May 2018 – July 2018

- **Audio signal processing via non negative matrix factorization** - Developed and evaluated an algorithm to separate multi-speaker audio from single speaker audio using non-negative matrix multiplication and machine learning.

Honors & Awards

2023	**Winner**, AI-OPS Hackathon	*Goldman Sachs*
2019	**Winner**, Smart India Hackathon, 2019	*India*
2016	**Top 0.05%**, JEE MAINS and JEE ADVANCED, 2016	*India*

Positions of Responsibility

Goldman Sachs

Memember of Developer Training Group

Bengaluru, India
Jan. 2021 - Aug, 2023

- Responsible for organizing sessions on different technical topics and team building activities like hackathon for developers .

Neuromancers Coding society IIT Bhubaneswar

Core Member

Bhubaneswar, India
December 2016 – May 2020

- Responsible for mentoring freshmen, organizing technical workshop for the whole university.
- Represent the society in different hackathon and coding competitions.