

TANISHQ AGARWAL

IIT KHARAGPUR

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EDUCATION

Degree	Institute / Board	Year	CGPA / %
Dual Degree, Civil Engg	IIT Kharagpur	2019 – 2024	8.0
CBSE	Lal Bahadur Shastri Snr. Sec. School	March, 2019	92.8 %
ICSE	Don Bosco School Liluah	March, 2017	91.8 %

EXPERIENCE

Urban Company

May 2024 – Present

Software Developer (Backend Development) | TypeScript, Kafka, Airflow, MongoDB, SQL, Kibana, Grafana, Microservices

- **Built a parallel fulfillment system** and an intelligent request match-making tunnel that uses data-driven insights to capture demand from **non-UC serviceable areas**. The system caters to request volumes approximately **3x greater than those originating from UC serviceable areas**, significantly expanding Urban Company's national reach. The automation platform includes an automated on-boarding funnel that eliminated manual intervention and resulted in a **20-25% reduction** in Ops costs, with the entire fulfillment journey implemented over WhatsApp and leveraging **Sarvam.AI's voicebot** to enhance customer communication
- Built a **pricing engine** for product flows for a central accounting system (Money Box), which was utilized by the order placement funnel of providers. This system contributed towards the adoption of **Domain Driven Design** for scalable and maintainable systems
- **Created a vendor and vendor catalog construct from scratch** to enable the automation of the procurement lifecycle. Enabled the life cycle management of vendor and vendor catalog, **automating 80% of procurement (which accounts for approximately 850 SKUs)**, thereby increasing operational efficiency and significantly reducing manual overhead
- **Engineered a comprehensive product scanning system that captures real-time product usage** by UC partners at the time of request delivery. This system is integral to maintaining accurate **partner inventory records and tracking granular product usage**. The flow was designed to enable the systematic reconciliation of the entire product fulfillment and logistics flow across the supply chain, ensuring traceability from order to delivery

INTERNSHIPS

Standard Chartered

May 2023 – Jul 2023

- Received a **Pre-Placement Offer** for outstanding performance and valuable contributions during the internship period
- Implemented a **Python-based automation** script, collaborating closely with the **Vice President** of Project Management, to automate the manual fund allocation process within the **Financial Security Services** team in the Financial Markets
- Significantly eliminated monthly processing time of approximately **80 hours**, thereby enhancing operational efficiency and accuracy while enabling seamless collaboration among a closely-knit team of **6-7 stakeholders**

Niti.AI

Feb 2023 – Apr 2023

- Developed **RESTful API** endpoints using **Go** for the backend and integrated them with the frontend using **Next.js**
- Utilized **gRPC** and **Protobuf** to maintain consistent data structure between client and server, enhancing data integrity
- Designed **DB Schemas** in **PotgreSQL** for element libraries facilitating the efficient generation of JSON templates
- Created a UI using **React Flow**, allowing users to create custom flows by selecting cards and defining transitions

Evva Health

Sep 2023 – Nov 2023

- Built a secure **React.js** frontend featuring **JWT-based authentication**, ensuring data security with seamless user access
- Created mobile chatbot UI using **react-chatbot-kit**, integrating **OpenAI** services for dynamic interactions with the bot

PROJECTS

Rubik's Cube Solver

May 2022 – Jun 2022

- Modeled a virtual **Rubik's Cube(3x3)** in 3 different models/classes using standard data-structures present in C++
- Achieved a solving time of under **3 seconds** for a Rubik's Cube **jumbled 8 times**, using **BFS, DFS** and **IDDFS** algorithms
- Implemented the **Korf's IDA* Algorithm**, achieving a solving time of under **10 seconds** for a cube **jumbled 13 times**

Group Chat Application

Nov 2021 – Dec 2021

- Created a real-time texting-based web chat application that allows multiple users to create and join chat rooms
- Utilised **Express** and **Socket.IO** frameworks to support full-duplex communication between the client and server
- Designed the front-end using HTML and CSS, and successfully deployed the application using **Heroku CLI**

AWARDS and ACHIEVEMENTS

- Secured an **All India Rank of 43** in Facebook Hackercup Round 1 2022
- Secured a **Global Rank of 1101** in Google Kickstart Round D 2022
- Secured a rank under **Top 2.1%** among 1.2 Million applicants in JEE Mains 2019
- Secured a rank under **Top 2.7%** among 2.2 Lakh candidates in JEE Advanced 2019

SKILLS and EXPERTISE

Languages/ OS : C, C++, Python, Go, TypeScript, LaTeX, Windows, Ubuntu

Libraries : C++ STL, Node.js, NumPy, Pandas, Matplotlib, OpenCV

Software : Postman, Matlab, Grafana, ELK stack, MS PowerPoint, MS Excel, Adobe Photoshop