

# SHUBHAM KUMAR

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## WORK EXPERIENCE & INTERSHIPS

Full Stack Engineer | **Outlier AI** | Freelance | Remote (June 2025 - Present)

- Trained and evaluated frontier LLMs (GPT-4, Claude 4) by developing 10+ high-quality front-end solutions using HTML, CSS, JavaScript and React.
- Improved model benchmark accuracy by 30% through rubric design, hallucination detection, and prompt refinement.
- Created gold-standard UI components and layouts for LLM fine-tuning, including complex responsive and accessibility-first designs.
- Enabled a 15% uplift in model pass rates by contributing production-grade reference implementations and reviews.

Software Development Engineer 2 | **BNY** | Pune, India (Mar 2024 - June 2025)

- Spearheaded the development of **ODS Studio**, a no-code/low-code platform enabling **50,000+ employees** to ingest, transform, and publish custody-related data into a centralized **PostgreSQL-backed Data Lake**, reducing recurring costs from **\$19M to \$5M annually**.
- **Created 8+ production-grade microservices using Java & SpringBoot** for ingestion, transformation, metadata management, and observability, ensuring scalability and modularity in the platform.
- **Engaged directly with internal customers** (data analysts, operations teams) to understand pain points in ingestion and schema management; redesigned brittle legacy ingestion pipelines into an **event-driven architecture using MQ/Kafka**, ensuring scalability, reliability, and simplified debugging.
- **Accelerated developer productivity** by building an **internal MQ message simulator** for backend testing, removing external dependencies, and cutting dev-test cycle delays by **60%**.
- Automated **AI-powered test data generation**, reducing onboarding time by **40%** and eliminating reliance on domain teams for samples.
- Enhanced observability with **custom monitoring Splunk dashboards and alerts**, reducing triage time for config/schema issues by **30%**.
- Championed **contract testing and SOLID principles**, improving backend service reliability and raising overall code quality by **20%**.

Software Development Engineer 1 | **BNY** | Pune, India (Jul 2022 - Mar 2024)

- Designed and revamped various UI screens on the ODS-Studio in **Angular** and **TypeScript**, increasing efficiency by over **20%**.
- Implemented **logger** service layer using **Java**, **Spring Boot**, and **SOLID** principles and installed **AWS S3** connections for data retrieval. Enhanced exception logging with detailed comments, **reducing debugging time** and improving developer efficiency.
- **Contributed** 10+ Custody framework components by designing various **Angular Components** for **future reuse** in BNY.
- Authored detailed **unit tests** using **JUnit**, **Mockito**, **Jasmine**, and **Karma** to **increase** code coverage by over **85%** in multiple modules.

## INTERSHIPS

Software Engineering Intern | **Standard Chartered GBS** | Remote (May 2021 – July 2021)

- Conducted comprehensive research on ETL processes and identified open-source tools to reduce processing costs.
- Spearheaded the implementation of **Grafana** Dashboards for ETL metrics, utilizing **Python & Prometheus**. Established connectivity with Oracle Database, transitioning from Grafana Enterprise, saving **\$100 per user**.

## SKILLS & TOOLS

**Languages:** C++, JAVA, TypeScript, HTML, CSS, JavaScript, Python

**Frontend:** Angular, SOLID Principles, Material UI

**Backend & Data Management:** SpringBoot, Oracle DB, SQL, MQs, REST APIs, Microservices, Apache Kafka, Redis, PostgreSQL

**Version Control:** Github, GitBash, Gitlab, CI/CD Pipelines

**DevOps & Cloud:** AWS S3, EC2, AWS APIGateway, Docker, Splunk, Lambda

**Tools & Testing:** JUnit, Mockito, Karma, Jasmine, Postman, SonarQube, Agile, Scrum

## EDUCATION

**DELHI TECHNOLOGICAL UNIVERSITY** | *Bachelor of Technology in Computer Engineering* | **GPA: 8.74/10** | (Aug 2018 - May 2022)

OOPS, Data Structures, Algorithms, Relational Database Management, Operating Systems, Computer Networks, Distributed Computing

## PERSONAL PROJECTS

**Saathi - A Social Helper**

Developed a communication-assistive web app for autistic and mute individuals, improving accessibility.

[Project Link](#)

**Ascii Art Generator**

Built a website to upload pictures and convert them into ASCII art in a text file using **HTML**, **CSS**, **JS**, and **Python**.

[Project Link](#)

**Avengers Match**

Composed an Avengers-themed card-matching game with 40 cards & animations using **HTML**, **CSS**, and **JavaScript**.

[Project Link](#)

## LEADERSHIP EXPERIENCE

**President, DTU Technical Council** | (Jan 2022- May 2022)

Managed the technical fest of DTU, successfully collaborating with 50+ companies, secured 50 lakhs in sponsorships, and led a team of

400 with a footfall of more than 20000 people.