

SHUBHAM KUMAR

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WORK EXPERIENCE & INTERNSHIPS

Software Development Engineer 2 | BNY | Pune, India (Mar 2024 - Present)

- Spearheaded the development of BNY Mellon's ODS-Studio as a **full-stack developer**, a flagship project used by **50,000+** employees, enhancing user experience and aligning with **customer-centric values** in an **Agile** Custody Data Services team.
- Refactored and optimized over **500 lines** of **TypeScript** code, improving readability and maintainability, resulting in a **20%** reduction in code complexity. Implemented **SOLID** design patterns, reducing code duplication by **30%** and enhancing code reusability. Structured **API endpoints** to simulate MQ request consumption, enabling efficient pre-development testing.
- Designed and executed complex **GraphQL** queries through **SpringBoot** to retrieve and process data, resulting in a **30%** improvement in data retrieval efficiency with **JSON schema** validation and data enrichment processes, ensuring data integrity and consistency using **Java**.
- Built a **Contract testing framework** using **Java**, **Cucumber**, **Gherkin**, and **BDD** for **smoke tests** and **streamlined** the process for the automatic generation of test data files using **Prompt Engineering** implementation saving around **40%** of the time, removing dependency on business teams, and **minimizing onboarding delays** & resource allocation for new datasets for the future.
- Authored detailed **unit tests** using **JUnit**, **Mockito**, **Jasmine**, and **Karma** to **increase** code coverage by over **85%** in multiple modules.
- Developed the ingestion layer for multiple datasets, including subscribing and publishing to **IBM MQs** in an **event-driven architecture** model, which involved the processing of over **5 million** messages connected with **Oracle DB** and the creation of multiple enrichments and derivative functions for **10+** datasets in **Java**, **docker** deployment, and **assembly file** tunings.
- Created detailed **technical documentation** and coding guidelines, standardizing development practices and improving onboarding efficiency for new team members by **50%**. Promoted the adoption of best practices in software development, leading to a **20%** increase in **code quality** and maintainability.

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 **30%**.
- Implemented **logger** service layer using **Java**, **SpringBoot**, and **SOLID** principles and installed **AWS S3** connections for data retrieval. Enhanced exception logging with detailed comments, **reducing debugging time** and improving developer efficiency by **25%**.
- **Contributed** to Custody framework components by designing various **Angular Components** for **future reuse** in BNY saving time for designing and **UI modifications** in all the applications.

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, OracleDB, MySQL, PostgreSQL, IBM MQ, REST APIs, Microservices

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

DevOps & Cloud: AWS S3, Docker

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

Created 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)

Successfully managed the technical fest, collaborated with 50+ companies, secured 50 lakhs in sponsorships, and led a team of 400.

Vice Chairperson, IEEE DTU | (Jul 2021- May 2022)

Led a 3-tier, 250-student team, elevating IEEE DTU to the largest among 40+ branches in the Delhi section.

Founder & President, Intern-Prep-DTU | (Sept 2020 – May 2022)

Established student organization mentoring 100+ students, facilitating internship readiness through mock interviews, and quizzes.