SHUBHAM KUMAR

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WORK EXPERIENCE & INTERNSHIPS

AI 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 BNY Mellon's **ODS-Studio**, a no-code/low-code platform to ingest, transform, enrich, and publish custody-related data from multiple source systems into a centralized Operational Data Store and ultimately the Data Lake.
- Delivered a flagship platform adopted by **50,000+** employees, enhancing user experience, and aligning with **customer-centric values** in an **Agile** Custody Data Services team.
- **Reduced recurring infrastructure and manual support costs from $19M to $5M annually** by modernizing MQ-based data pipelines and introducing automation around schema validation and testing.
- **Improved platform observability** through custom dashboards and alerting systems, reducing triage time for config/schema issues by **30%.**
- **Developed an internal MQ message simulator** for pre-production testing, eliminating downstream dependencies and cutting dev-test cycle delays by **over 60%.**
- Automated test data generation using **AI-driven prompt generation based on dataset schemas**, reducing onboarding time by **40%** and eliminating reliance on domain teams for samples.
- Built a **Contract testing framework** using **Java, Cucumber, Gherkin, and BDD** for **smoke tests** and **streamlined** the process of onboarding 12+ datasets across various data warehouses.
- Created detailed **technical documentation** and coding guidelines, standardizing development practices, and improving onboarding efficiency for new team members. Promoted the adoption of **SOLID principles** 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 **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** to the Custody framework components by designing various **Angular Components** for **future reuse** in BNY, saving time for designing and **UI modifications** in all the applications.
- Authored detailed **unit tests** using **JUnit, Mockito, Jasmine, and Karma** to **increase** code coverage by over **85%** in multiple modules.

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, Postgres
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.