SANSKAR MUNDANIYA

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Technical Skills / Achievements

Frameworks: Spring, Spring Boot, MERN, REST APIs
Languages: Java, C++, Python, JavaScript, TypeScript
Cloud Technologies: Kubernetes, Docker
Monitoring/CI/CD Tools: Kafka, Redis, GitLab
Developer Tools: VS Code, Git/GitHub, Maven, IntelliJ, Postman
Solved **400+** problems on Data Structures and Algorithms on **LeetCode** and **GFG**

Experience

UBS | *Software Engineer*   **(React, TypeScript, Node.js, Java, Spring Boot, Agentic AI) (August 2023 – Present)**

- Contributing to the development of the **Wealth Banking System**, a full scale financial platform enabling advisors to execute **secure client payment workflows** for UBS Wealth Management America.
- Developed and enhanced **frontend features** using **React and TypeScript**, improving usability, responsiveness, and seamless integration with backend services.
- Engineered resilient **RESTful APIs** using **Java, Spring Boot, and Node.js**, which facilitated secure payment processing and service-to-service communication, achieving 99.99% API uptime.
- Integrated **Kafka-based event flows** and asynchronous processing to support reliable, event-driven workflows within distributed services.
- Applied **Redis caching** to optimise frequently accessed data, reducing database load and improving **API response times** in high-traffic scenarios.
- Designed and maintained **PostgreSQL backed data models**, ensuring transactional integrity and consistency across payment-related services.
- Led development of an internal **Agentic AI powered Deployment Automation Tool** during a UBS hackathon, securing a **Top 4 Regional ranking**.
- Built a **full stack automation platform** with a React UI, backend orchestration services, and **AI agents** capable of planning, executing, and validating deployments with minimal manual intervention.
- Containerized services using **Docker** and integrated them with **CI/CD pipelines**, enabling repeatable and reliable deployments across environments.
- Implemented comprehensive **automation and API test coverage** using **Java, Spring, Selenium, Cucumber (BDD), and RestAssured**, reducing **manual regression effort by 80%** and improving release velocity.
- Worked in an **Agile environment** with US-based developers and product owners, owning features end-to-end from requirement analysis to live demos and stakeholder sign-off.
- Recognised as an **Outstanding Performer** for ownership, innovation, and cross functional collaboration at the technology organisation level.

Projects

Visual Question Answering with Compound Emotion Support | *(VGG19, Attention Models, Random Forest, XGBoost)*

- Co-authored a research publication published by **Elsevier (July 2024)** focused on enhancing **Visual Question Answering (VQA)** systems to recognize and interpret **compound human emotions** in images.
- Addressed overlapping emotional expressions using **VGG19-based feature extraction**, **attention mechanisms**, and ensemble learning models including **Random Forest and XGBoost**.

Anime4u | *(React, Node.js, MongoDB, REST API)*

- Built a **full-stack anime discovery platform** with **React and Node.js**, supporting trending content, genre-based search, user accounts, and reviews.
- Designed **RESTful APIs** and optimized **MongoDB queries**, achieving **30% faster data retrieval** and supporting **1K+ daily requests**.

Education

Malaviya National Institute of Technology   **Sep 2019 – May 2023**
Bachelor of Technology in Computer Science and Engineering   GPA: 7.43/10   *Pune, Maharashtra*