

Surya Madhavan

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EDUCATION

University of Mumbai

B.Engg. Electronics and Telecommunications

June 2022

CGPA: 9.12/10

EXPERIENCE

Capgemini

Software Engineer

August 2022 – May 2024

Mumbai

- Worked on the backend of Demands, Consumption & Production forecasting system for the client **BMW's** manufacturing plants.
- Improved Kafka streams based data pipelines with necessary adjustments as per client's demands to act as multi-tenant application.
- Deployed hotfixes for on-site priority incidents while providing support to the live plant.
- Rewrote outdated unit & integration tests for multiple microservices ensuring 40% better code coverage & clean code practices.
- Implemented the backend of realtime data analysis POC based on event-driven architecture for e-commerce data streams using Spring Boot & Kafka Streams.
- Utilised Azure Devops & Azure Monitor for efficient code deployment & service monitoring purposes.
- Tech Stack - Java, Spring Boot, Apache Kafka, Quarkus, PostgreSQL, Docker, Grafana, Prometheus, Azure

Quikly

Frontend Developer

Oct 2020 – May 2021

Remote

- Built the frontend of an employment project from scratch with UI screens for candidate, client & recruiters allowing them to navigate with minimal overhead.
- Engineered onboarding flows for candidate & employers with multi-page forms using react-hook-forms & strict data validation.
- Developed crucial features such as a **Kanban board**, **Interview Scheduler**, **Candidate Approval**, **Mailbox** for recruiters, **comprehensive search functionality**, and **data-intensive dashboards** for both recruiters and job seekers.
- Tech stack - ReactJS, Redux, Chakra UI

PROJECTS

YMDB | *NestJS, TypeScript, TypeORM, PostgreSQL*

- REST API built with NestJS to serve movies data with filters, sorting.
- Ensured type safety & clean code practice with TypeScript & TypeORM
- Included DockerFile for smoother project running experience.

TrackerEz | *React, MongoDB, NodeJS, ExpressJS, Redux*

- Full Stack App to track workouts and routines using JWT and Cookies for authentication
- Used Redux wrapper for State Persistence throughout the app.

SKILLS

Languages: Java, Javascript, Typescript, Python

Cloud / Tools: Azure, Docker, Kubernetes, Git, Maven, Jenkins, Prometheus, Grafana

Frontend: HTML, CSS, SASS, ReactJS, Angular, NextJS, TailwindCSS, Bootstrap

Testing: JUnit, Mockito, Jest, React Testing Library

Frameworks / Libraries: Spring Boot, NodeJS, NestJS, Quarkus, Spring MVC, Kafka Streams, Hibernate, TypeORM

Databases / Messaging System: MongoDB, PostgreSQL, Apache Kafka

PUBLICATION

Virtual Cloth Warping using Deep Learning | Res Militaris

GAN-based generative deep learning model developed to create 2-dimensional images of human with their desired clothing.