

# Surya Madhavan

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## SUMMARY

Software Engineer with 2 years of experience in frontend and backend development. Proficient in Java, JavaScript, TypeScript, React, and NextJS. Skilled in delivering well-tested, scalable solutions in agile teams. Seeking a role to apply problem-solving and business insight to create impactful solutions in a collaborative environment.

## 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

## EXPERIENCE

### Capgemini

August 2022 – May 2024

*Software Engineer*

*Mumbai*

- Worked on the backend of Management & Forecasting of Vehicle Assembly system for client **BMW**.
- Improved Kafka streams based data pipelines with necessary adjustments 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- Rewrote outdated unit & integration tests for multiple microservices ensuring 40% better code coverage & clean code practices.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

Oct 2020 – May 2021

*Frontend Developer*

*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.

## 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.

## EDUCATION

**University of Mumbai**

*B.Engg. Electronics and Telecommunications*

June 2022

*CGPA: 9.12/10*