

# Sarthak Jain

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## WORK EXPERIENCE

### Full Stack Engineer(Backend Major and Devops) @codedamn Dec 2022 - Aug 2023

- System Designed the **video transcoding pipeline** and implemented video transcription generation infra, **reducing the cost of operation by 90%**. This infrastructure had been Composed using multiple AWS services.
- Migrated company's DB with a user base of 250k+, from MongoDB (NoSQL) to PostgreSQL (SQL) using AWS RDBMS service Serverless RDS, reducing request latency by 90%.
- Designed and Developed the **DSA labs architecture** from scratch and Built the "[pricing page](#)" of the company
- Tech Stack:** GraphQL, AWS Lambda, AWS EC2, AWS SQS, MongoDB, PostgreSQL, Typescript, Next.js, Tailwind CSS

### Freelance Full Stack Developer @matrimonial.ai Sept - Nov 2022

- Managed application's deployments and handled production load servers hosted on **AWS**.
- Proficiently contributed on the **React and Tailwind CSS-based frontend**, contributing to an intuitive and visually appealing user interface.
- Tech Stack:** Next.js, Tailwind CSS, Node.js, Typescript, AWS EC2, AWS Amplify, MongoDB, Mongoose, Playwright, Vitest

### The Linux Foundation, [lfx mentee](#) June - Aug 2022

- Engaged in a mentorship with The Linux Foundation, contributing to the OMF Project by enhancing the ZOWE CLI with data set and file comparison commands, optimizing IBM mainframe operations using **Typescript and Node.js**.
- Enhanced ZOWE CLI for IBM mainframes by developing a **feature to compare datasets** across various file types, **incorporating browser view options for diff results** and **optimizing code for imperative framework integration**.
- Tech Stack:** Typescript, Bash,, Node.js

### Freelance Full Stack Developer @oyo-movers Mar - May 2022

- Led the development of the backend infrastructure** for 2 distinct frontend websites and a mobile application. Employed **Express.js, PostgreSQL, and Prisma ORM** alongside various third-party APIs like **stripe payment gateway** integration, **google maps api** and **firebase real time database integration** to enable users to connect with packers and movers seamlessly
- Successfully **integrated real-time location tracking** using Firebase Realtime Database, enhancing service reliability. Optimized the user-friendly frontend to provide an intuitive interface for customers.
- Tech Stack:** Typescript, Node.js, Next.js, Tailwind CSS, AWS, PostgreSQL, Prisma, Firebase, Redis, Expressjs

## SKILLS AND EXPERTISE

Languages	: Javascript, Typescript, Bash Scripting, Java, GoLang
Dev Frameworks	: Node.js, React.js, Next.js, Tailwind CSS, Expressjs, GraphQL, Trpc, Prisma, Playwright, Vitest
Databases	: PostgreSQL, MongoDB, Redis
DevOps Tools	: Git, Linux, Docker ,Swarm, Kubernetes, Prometheus, Grafana, Ansible, Github Actions, Jenkins, Azure, AWS, EFK Stack
Soft Skills	: Collaboration, Agile Methodologies, Problem Solving, Effective Communication

## PROJECTS

### CreatorLens

- Engineered a scalable backend, architecture in **Typescript and Node.js** for **CreatorLens** using **trPC**, integrating **Redis** for optimized **caching and rate-limiting**, ensuring robust performance and security.
- Orchestrated automated infrastructure provisioning and configuration management across **Azure VMs** using **Terraform, Ansible, and GitHub Actions**, resulting in a reliable CI/CD pipeline and **container orchestration with Docker Swarm**.
- Facilitated secure service exposure and **connectivity via Nginx reverse proxy** and implemented a comprehensive logging solution using **EFK stack** and APM using **Prometheus & Grafana** with **secured TLS communication between each of the micro-service**.

### Home Server Configuration and Management Project

- Engineered a resilient multi-service **home server** using **Docker Swarm**, enhancing service availability and automating deployment with **github CI/CD pipelines to deploy and sync server configuration with IaC**, resulting in a 30% reduction in deployment time.
- Configured **Nginx for reverse proxy**, integrating **Cloudflare Tunnel** to securely expose services to the internet while maintaining robust local **DNS resolution with dnsmasq** in Docker.
- Leveraged **Ansible for server configurations**, promoting **Infrastructure as Code (IaC)** for efficient management, and reduced configuration errors by 40%.

### Wapi.js [\[documentation\]](#)

- Developing Wapi.js, an open-source TypeScript library that **simplifies WhatsApp Cloud API integration**, enabling swift chatbot creation with event based **message handling** and **user interaction** workflows using **Typescript and Node.js**
- Incorporated **advanced github CI/CD pipelines for automated testing and releases**, facilitating a streamlined development cycle and robust version control for community-driven enhancements.

## CERTIFICATIONS

- AWS Certified Developer - Associate** Dec 2023

## EDUCATION

- Bachelor of Computer Applications**, DSEU Shakarpur Campus, Delhi Aug 2021 - Feb 2023
- Sr. Sec School** , CBSE, Delhi Apr 2020 - Apr 2021