OJAS TYAGI

Software Developer | Backend Engineer

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EDUCATION

B.Tech Computer Science and Engineering
Vellore Institute of Technology, Vellore

📅 September 2021 – May 2025   📍 Vellore

- Currently pursuing a B.Tech degree in **Computer Science and Engineering with specialization in Data Science**. Gained expertise in essential computer science topics such as data structures, algorithms, web development and other concepts.
- Played a key role in the **Google Developer Student Club** and **Codechef VIT**, organizing diverse events such as hackathons and workshops, successfully engaging over 5,000 participants.

EXPERIENCE

Software Developer Intern
Superjoin (Previously Stackit)

📅 August 2023 – January 2024   📍 Bangalore, India

- **Architected Kafka and REST APIs**: Enhanced data transfer efficiency and automated data integration, **reducing manual efforts by 40%**.
- **Engineered Stripe Paywall and Secure Collaboration Features**: Increased subscriptions by 25% with a seamless paywall, and introduced secure connection sharing within organizations without exposing sensitive keys.
- **Created CI/CD Pipelines with Jenkins**: **Reduced deployment time by 50%** through robust pipelines for production and pre-production builds. Also, created feature for automated data reports sent to Slack and email for users.
- **Represented Superjoin at Key Tech Events**: Engaged with the tech community in Bangalore at events like the **Google Workspace Developer Summit**, expanding professional networks by meeting **over 200 industry professionals** and staying updated with the latest industry trends.

Full Stack Developer
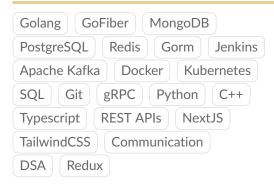**Onboarding.club**

📅 December 2023 – July 2024   📍 Remote

- **Migrated Backend and Database**: Transitioned from **Golang** to **TypeScript** and from **PostgreSQL** to **MongoDB**, enhancing scalability and development speed while eliminating migration hassles, leading to a **30% reduction in development time**.
- **Innovated Platform Features and Integrated Activity Heatmaps**: Built features for gigs, blogs, rewards, and profiling, increasing user growth by 40%. Added heatmaps for activities like **blockchain and GitHub contributions**, boosting user engagement by 25%.
- **Orchestrated Stellar Builder House**: Led the **first global Stellar Builder House**, attracting builders from across the country to develop products within a week, with participants having the **opportunity to secure $100K in grants**.

SKILLS

Golang   GoFiber   MongoDB   PostgreSQL   Redis   Gorm   Jenkins   Apache Kafka   Docker   Kubernetes   SQL   Git   gRPC   Python   C++   Typescript   REST APIs   NextJS   TailwindCSS   Communication   DSA   Redux

PROJECTS

TurboKey
A High-Performance Key-Value Store

- **Engineered High-Performance Web Service**: Developed a Golang web service for key-value storage over **TCP**, improving data retrieval speed by 30% compared to the previous system and handling 10,000 concurrent connections with minimal latency.
- **RESP Protocol Compatibility**: Designed the service to use the RESP protocol, allowing seamless integration and compatibility with existing Redis projects, **reducing the migration effort by almost 100%**.

GoFileNet
A Distributed File System in Golang

- **Scalable and Reliable Storage**: Developed a distributed file system in Golang, achieving **99.9% uptime** with **fault tolerance** and high availability. Implemented replication, error correction, and consensus algorithms.
- **Efficient Data Distribution and Concurrency**: Implemented efficient data distribution algorithms and leveraging Golang's goroutines for concurrent processing, enhancing data accessibility, fault tolerance, and system performance.