Hrithik Adhikari

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Education

Birla Institute of Technology and Science, Pilani   **Aug. 2016 – May 2021**
Master of Science in Physics   *Pilani, Rajasthan*

Birla Institute of Technology and Science, Pilani   **Aug. 2016 – May 2021**
Bachelor of Engineering in Mechanical   *Pilani, Rajasthan*

Technical Skills

Kotlin | Java | NodeJs | SQL | Redis | C++ | Cosmos | Flutter | Kubernetes | Kafka | Python | Microservice Arch | Firebase | Cloudflare CDN

Experience

Dashtoon   **June 2023 – Present**
Software Engineer

- Spearheaded **end-to-end database migration** from **PostgreSQL** to **Cosmos DB** using **Dual Read/Write strategy**, ensuring **zero downtime** and data consistency across **10M+ records**.
- Enabled **multi-region support** through **Cosmos DB**, optimizing data access and availability across geographic regions, **reducing latency by 40%**
- Architected and implemented a scalable **notification system** leveraging **Firebase Cloud Messaging**, handling **100k+ daily notifications** resulting in **5% increase in D7 retention**
- Enhanced Flutter app performance by **enabling 90Hz** display support and optimizing thread management, **reducing crashes by 80% and ANRs by 50%** while delivering smoother UX
- **Cut CDN costs by 85%** and **increase cache hit by 200%** through bucketizing image transformations
- Established **on-premises CI/CD** infrastructure with GitHub Actions, resulting in **60% faster build times** and improved deployment reliability
- Engineered an end-to-end referral program **contributing 20% to organic traffic**, including attribution tracking and reward distribution system
- Designed and implemented a **modular A/B testing framework** using Flagsmith, enabling rapid feature experimentation and **data-driven decision making**
- Developed automated **event testing framework**, achieving **85% test coverage** and **70% reduction** in manual testing efforts
- Architected mission-critical Reader Screen (**80% user engagement**) with **modular design**, enabling seamless integration with add-on features

Teknofeet   **Oct 2021 – May 2023**
Founding Engineer

- **Took ownership** of the development of a proprietary ecommerce backend with order, inventory, and customer management systems. This **decreased dependency** on third-party platforms, **saving $2,000** monthly.
- Designed and implemented **CI/CD pipelines** utilizing **GitHub Actions and Jenkins** to automate integration and unit testing, ensuring consistent high-quality releases across multiple environments.
- Implemented a robust **notification service for multi-channel automated messaging**, resulting in increased user engagement and improved system reliability.
- Developed a **multi-vendor marketplace** with **payment gateway** integration, **inventory, logistic management**, enabling brands to expand reach and minimize returns through seamless third-party aggregator integration
- Implemented **Cache Aside Caching Read Strategy** with **Redis**, reducing response times by **up to 30%**.

Addverb Technologies   **Aug 2021 – Oct 2021**
Software Developer

- Developed and maintained a **Single Sign-On (SSO)** platform for Addverb products with **Role-Based Access Control** (RBAC) and JWT authentication to enhance API security.
- Developed midbound service which uses a **modular architecture** that allows for easy integration with other warehouse management systems and APIs, making it highly adaptable to different technology environments.
- Implemented a notification service using **SMTP** to alert users of license expiry.

Projects

Watchman

- Created a secure, automated method for streaming live logs from Docker containers without requiring direct access to the host system.
- Optimised the process by using websockets to reduce the overall RAM utilization on server.
- Used CRON to schedule summary emails of error encounters every hour.
- Added Basic Authentication using nginx to restrict the access