# Aditya Ramakrishnan

📞 +918452962878  ✉ adityaramce@gmail.com  ⌨ Github  in LinkedIn  ⌨ Leetcode  🌐 Portfolio

## Professional Experience

**Reliance Jio**                                                        **10/2023 – Present**
*Software Development Engineer*                                         *Ghansoli, India*

- **JioCloudPc**: Developed a cloud-based virtual PC transforming TVs into interactive workstations; created CMS platform and 40+ backend APIs for seamless control across 10K+ connected devices.
- **React.js Components**: Developed key React.js components for the JioCloudPc and JioEngage platforms, improving the user interface and experience across multiple services, leading to a 15% increase in user satisfaction.
- **User Engagement & Gamification**: Led enhancements for JioEngage, improving OTT/TV experiences for STB and Jio-TV Election, resulting in a 100K+ increase in MAUs and a 20% increase in user retention.
- **Scalable Real-Time Communication**: Built a pub/sub system using SocketCluster for real-time experiences like Ludo, HandCricket, Tambola, and WordTrail, supporting 1M+ users with low latency and +25% engagement.
- **Backend System Optimization**: Deployed RabbitMQ and Redis clusters, resulting in 30% infrastructure cost savings and a 25% decrease in response times.
- **Optimized API Performance**: Reduced API load times from 5–6s to 500ms, enhancing user interactions and boosting engagement.
- **Brand Solutions Development**: Delivered backend services for Cadbury Silk campaigns, driving 195K+ purchases and increasing sales by 15%.
- **Deployment & Infrastructure Optimization**: Reduced release time by 40% via optimized CI/CD pipelines, maintaining 99.9% uptime. Introduced Redis caching for real-time data, decreasing database load by 35% and supporting a 25% increase in concurrent users.
- **Load Testing & Scalability**: Conducted load testing with k6.io, achieving 4K RPS (requests per second) under peak load, improving system scalability and performance.

## Education

**SIES Graduate School of Technology**                                  **08/2019 – 07/2023**
*Bachelor of Engineering in Computer Engineering (CGPA: 9.07)*          *Mumbai, India*

## Skills

**Languages**: C++, JavaScript, Java

**Libraries/Frameworks**: React.js, Node.js, Express.js, Next.js, Vue.js, Tailwind CSS

**Tools**: Linux, Docker, Redis, Kafka, RabbitMQ, SQL Server, Akamai, Nginx, Git, Figma

**Cloud Platforms**: AWS (EC2), GCP

## Projects

**Memento (Social Media Platform)**                                     **2022**
*React, Node.js, Express, MongoDB*                                      *Link*

- Implemented JWT and Bcrypt for secure authentication on social media platform, fortifying user data privacy and security, resulting in zero reported data breaches during the platform's initial testing phase.
- Enhanced UX with features like pagination and real-time updates, increasing user engagement by 30%.

**Preowned (Marketplace App)**                                          **2022**
*Vue, Node, NoSQL*                                                      *Link*

- Built a scalable marketplace application enabling seamless listing, browsing, and purchasing of 100+ preowned items.
- Improved API performance, achieving average page load times under 1.5 seconds. Ensured compliance with data privacy standards like GDPR, maintaining 99.9% uptime.

## Achievements

**LeetCode**: 1500+ rating, solved 300+ problems.

**CodeChef**: 3-star coder, peak rating 1653, Global rank 91 in May Challenge.

**Hackathons**: 2nd Runner-up at Bytecamp'21, Top 20 in Flipkart Grid 4.0, Semifinalist in Runtime Terror.

**Quiz Competitions**: Winner of Matrix, inter-college quiz competition.