

# SURYA RAMAN

SOFTWARE ENGINEER. DOG OWNER. MOTORCYCLE ENTHUSIAST.

Bangalore, India | +91 9790848364 | [suryaramansuresh@gmail.com](mailto:suryaramansuresh@gmail.com) | [Website](#) | [LinkedIn](#) | [Github](#)

## Skills

|         |            |       |         |                     |            |       |
|---------|------------|-------|---------|---------------------|------------|-------|
| Node.js | TypeScript | SQL   | MongoDB | Elasticsearch       | Prometheus | Git   |
| Python  | Java       | Redis | Kafka   | Kubernetes / Docker | New Relic  | Nexus |

## Experience

### SDE - 2 | yellow.ai

JAN 2021 - PRESENT, BANGALORE

- Spearheaded the engineering efforts for building and maintaining WhatsApp Business **Kubernetes** infra
  - **Collaborated with WhatsApp/Meta** team to run load tests with various Kubernetes workload configurations and understand the optimal resource configuration
  - Implemented services to automatically provision new workloads in Kubernetes with this configuration resulting in a **400% increase in messaging throughput**
  - Migrated the entire WhatsApp infrastructure in yellow.ai from **Azure to AWS** and **reduced the cost of the infrastructure by 88% per month**
  - Built a proxy to port customers using legacy APIs to newer APIs with **Node.js, MongoDB, and Redis**
  - Setup **Prometheus** dashboard and introduced alerts for all aspects of the system ( outbound queue size, IOPS, remaining disk size )
- **Eliminated Single Points of Failure** across the system by understanding various failure areas
  - Introduced **SQL replication** and **proxysql**, and **geo steering** for high availability
- Designed and developed **blue-green strategy for data migration** between chatbot environments which reduced data migration failures and chatbot downtime
- Used **new relic** to identify problem areas in a core authentication service; Introduced cache and rewrote legacy code to **reduce latency by 124%**
- Introduced subscription management using **TypeScript** allowing customers to create and upgrade their subscriptions, and employees to create non-billable subscriptions
- Introduced **artifact management** with **nexus**, converted an internal monolith into smaller libraries
  - Integrated this with a **Jenkins** pipeline to do automatic **semantic versioning**

### SDE - 1 | yellow.ai

MARCH 2018 - DEC 2020, BANGALORE

- Introduced admin panel for managing the yellow.ai platform using **React, Ant Design, and Typescript**
- **Implemented OAuth 2.0** for the yellow.ai platform which allowed clients to access the platform via any OAuth 2.0 provider; Added support for the standard flow as well as **OIDC**
- Implemented a service for converting html/url to pdf/image with **Typescript, puppeteer** and **browser pool**.
- Designed and developed notifications as a service for the platform with **Typescript, MySQL, and XMPP**
- Improved chatbot load time by optimizing code, lazy loading assets, and client-side caching which **reduced page load time from 6 seconds to 1.2 seconds**

### OTHER RESPONSIBILITIES

- **Managed a team of 6** when promoted to SDE-2; Planned and managed agile sprints for the whole team
- Instrumental in bringing the first enterprise client to **accelerate the growth plan by one year**

### BI Developer | Visual BI Solutions

MAY 2017 - MARCH 2018, CHENNAI

- Integrated Business Intelligence tools for the product **BI Hub** such as Microsoft Power BI, SAP Business Objects, SQL Server Reporting Services, and TIBCO Spotfire using **Python, MySQL, and Java**

## Education

### Computer Science and Engineering | Anna University

AUGUST 2013 - MAY 2017, CHENNAI

- Implemented Capstone Project on "BLE Tracking System" using Arduino, NRF24L01, Android, and Firebase