

SURYA RAMAN

SOFTWARE ENGINEER. DOG OWNER. MOTORCYCLE ENTHUSIAST.

Toronto, Canada - Permanent Resident | suryaramansuresh@gmail.com | [Website](#) | [LinkedIn](#) | [Github](#)

Skills

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

Experience

Engineering Manager | [yellow.ai](#) JAN 2024 - PRESENT, TORONTO, CANADA

- Leading a team to build and maintain all messaging channels and integrations supported by yellow.ai

SDE - 3 | [yellow.ai](#) JAN 2023 - DEC 2023, TORONTO, CANADA

- Eliminated Single Points of Failure** across the system by understanding various failure areas
 - Introduced **SQL replication**, **ProxySQL**, and **geo-steered load balancing** for high availability
- Designed and developed a **blue-green strategy for data migration** between chatbot environments that reduced data migration failures and chatbot downtime

SDE - 2 | [yellow.ai](#) JAN 2021 - DEC 2022, BANGALORE, INDIA

- Spearheaded the engineering efforts for building and maintaining WhatsApp Business **Kubernetes** infra
 - Collaborated with the WhatsApp/Meta** team to run load tests with various Kubernetes workload configurations and understand the optimal resource configuration
 - Revamped services to provision new workloads in Kubernetes with this configuration, resulting in a **400% increase in messaging throughput**
 - Migrated the entire WhatsApp infrastructure between cloud providers 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)
- Used **new relic** to identify problem areas in a core authentication service; Introduced cache and rewrote legacy code to **reduce latency by 124%**
- 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](#) MAR 2018 - DEC 2020, BANGALORE, INDIA

- Introduced admin panel for managing the yellow.ai platform using **React**, **Ant Design**, and **Typescript**
- Implemented OAuth 2.0** which allowed clients to access the yellow.ai 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**
- 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**

BI Developer | [Visual BI Solutions](#) MAY 2017 - MAR 2018, CHENNAI, INDIA

- 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](#) AUG 2013 - MAY 2017, CHENNAI, INDIA

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