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 | Kafka | Kubernetes / Docker | New Relic | Nexus |

Experience

SDE - 3 | yellow.ai   JAN 2023 - PRESENT, TORONTO, CANADA

- **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 a **blue-green strategy for data migration** between chatbot environments which 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 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)
- 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   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**
- 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 - 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, NRL24L01, Android, and Firebase