Vaibhav Sharma

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Experience

Software Engineer   *Kaleyra / Tata Communications*
July 2022 - Present   Bengaluru

- **Led** the **Golang backend development** for the **chatbot project**, overseeing **architecture**, **implementation**, **code reviews**, and **optimization** to ensure efficient and reliable performance along with regularly **coordinating with the product team**.
- Implemented a **microservices** based architecture with independent **scaling** and **load tests** to identify the **optimum** resources resulting with an **overall P95 latency of less than 1 second** reducing the **response time by 30%** enhancing user experience.
- Created and owned a robust chatbot **billing architecture** which has processed more than **5 million** API requests by using **elasticache** and **RabbitMQ queuing** mechanisms. **Enhanced** it with impementing APIs for a **company wise custom pricing**
- Co-ordinated a seamless **Go-To-Market** strategy for a **groundbreaking product launch**, resulting in a **40% increase in total customers** than projected within the first six months
- **Integrated WhatsApp chatbot with the Agent System**, enabling seamless transition of conversations from the chatbot to a human agent.
- Redesigned the chatbot's **Authentication and Authorization** layer by implementing **API wrappers, middlewares and privilege based roles** to significantly enhance overall **security**
- Worked for **an Active-Active chatbot architecture**, improving availability across regions and enhancing scalability
- **Led the upgrade of ElastiCache to a master-replica configuration**, ensuring uninterrupted session context and **no loss of ongoing conversations**

Technical Skills

Languages	Golang, Python, C++, NodeJS
Frameworks/Libraries	RabbitMQ, Zap, Gorilla
Databases	MongoDB, Redis, SQL
Dev Tools	Visual Studio Code, REST APIs, Git, New Relic

Personal Projects

NewsMail
Python, HTML, Selenium, CSS, Django   Source Code

- Developed a **Django** and **Selenium** based project that delivers news updates to users via email based on their specified interests.
- Utilized Selenium to scrape news topics from Google News based on user preferences.
- Set up scheduled email deliveries using SMTP, allowing users to receive daily news updates.
- Deployed the application on Heroku, managing both frontend and backend components.

URL Shortener
Go, MongoDB, Redis, RabbitMQ   Source Code

- Created a URL shortener service in Go, enabling users to generate and manage short URLs, including support for custom short URLs.
- Integrated Redis for caching and RabbitMQ for gathering and processing analytics data related to URL usage.
- Implemented thread-safe operations using mutex locks to ensure consistent URL mapping in a concurrent environment.

Education

Dayananda Sagar College of Engineering (VTU)   *Bengaluru*
B.E. in Information Science and Engineering - 9.09 GPA   2018 - 2022

Guru Nanak English School   *Varanasi*
12th Standard - 91.2%   2017

Achievements

Letter of Recognition
                                                                                                           April 2023

- Received from the Engineering Manager for the work done on on-boarding a major customer **Shopfully**