Sarthak Srivastava

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**Golang engineer specializing in API-driven microservices and distributed systems, with experience delivering scalable, high-performance software in telecom-grade environments.**

# Skills

* **Languages & Frameworks:** Golang (proficient), RESTful APIs, gRPC, JSON, Protocol Buffers
* **Microservices & Architecture:** Distributed Systems, API Design, Service Oriented Architecture (SOA), Event-driven Design
* **Cloud Computing :** Docker, Kubernetes, CI/CD (Jenkins/GitLab CI), Git, Linux, Bash, Jira
* **Databases Management:** MySQL, Redis, Key-Value Store
* **Testing & Performance:** Unit & Integration Testing (Go test), Benchmarking, Load/Stress Testing
* **Networking & Protocols:** HTTP/HTTPS, TCP/UDP, TLS, JSON-RPC, gRPC

# Experience

**Capgemini Technologies – Software Engineer** *08/2022 – Present*

* Designed and implemented **microservices in Golang** for telecom-grade systems, leveraging **REST APIs**  to deliver high-performance and scalable services.
* Built the **DCCF node in 5G architecture** in Go, applying principles of distributed systems, fault-tolerance, and concurrent programming.
* Contributed to the design and implementation of a **high-throughput load balancer for the 4G Serving Gateway (SGW)** in Go, enabling horizontal scalability and efficient traffic distribution across multiple cores.
* Engineered and deployed the **Mobility Management Entity (MME)** from scratch in Go, including end-to-end API design and modular code structure.
* Applied concepts of **Docker & Kubernetes containerization** principles for deployment and testing all of the above mentioned nodes in a Linux environment..
* Performed **unit testing** using Go tests for the applications as well as **load testing** to optimize API throughput and system reliability under heavy network traffic.

# Education

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### Motilal Nehru National Institute of Technology, Allahabad*- B. Tech.*

*06/2018 – 06/2022*

Completed Bachelors in Technology from NIT Allahabad with **7.36** CPI.

# Courses/Certifications

* Go Fundamentals by Nigel Poulton
* Getting Started with Kubernetes by Nigel Poulton
* Developing Go Apps with Docker 20.10
* Microservices Architectural Design Patterns Playbook by Reg Dhiman.