

# 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

### Indian Institute of Information Technology Technology, Allahabad– B. Tech.

06/2018 – 06/2022

Completed Bachelors in Technology from IIIT 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.