Nikhil Sharma

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SKILLS

Languages: Go, C++, Java, JavaScript
Frameworks: Gin, Echo, Gorilla, HttpRouter,
Libraries/Protocols: Net/HTTP, gRPC, webRTC, websockets, Go-kit
Tools: Docker, Kubernetes, Kubebuilder, Triggermesh, OpenFaas, RabbitMQ, Kafka
Databases: PostgreSQL, MySQL, Redis, Mongo, Minio/S3

WORK EXPERIENCE

GREEDYGAME — Remote
Backend Developer Intern — Nov 2023 – Jan 2024
- Implemented and optimized tournament creation functionality in a quiz application using Golang, focusing on seamless integration, categorization, and scheduling mechanisms.
- Contributing to the development of a peer-to-peer service within the application to facilitate one-on-one competition.

TRIGGERMESH — Remote
SWE Intern — Jun 2023 – July 2023
- Contributed to tmctl (Triggermesh's CLI to manage event-driver applications). My contributions.
- Researched for Triggermesh's new feature to make AWS lambda functions run on K8s and triggering them with Triggermesh

INFRACLOUD — Remote
Product Engineering Intern — Nov 2022 – April 2023
- Contributed to Fission(serverless framework for Kubernetes). My contributions.
- Contributed to NineOps(Cloud Native tool managing cluster heart-beat and faster recovery). I worked on issues related to self-signed certs and local testing.

CNCF(Cloud Native Computing Foundation) — Remote
LFX Intern — Sep 2022 – Nov 2022
- Contributed to Kyverno(policy engine designed for Kubernetes).
- Integrated a new cleanup-rule into Kyverno's policies for scheduling the cleanup of specified Kubernetes resources.

CNCF(Cloud Native Computing Foundation) — Remote
Google Summer of Code Intern — Jun 2022 – Sep 2022
- Create a new Kubebuilder Golang Plugin(deploy-image) for providing users with an operator solution to deploy and manage an image on a Kubernetes cluster.
- Demo: https://www.youtube.com/watch?v=UwPuRjjnMjY

OPEN SOURCE CONTRIBUTIONS

- Open Source Cloud Native projects I have made contributions to are: **Kubernetes**, **Minikube**, **Kubebuilder**, **Openfaas**, **Cilium**, **Kyverno**, **Operator-SDK**, **Fission**, **tmctl**.
- My contributions (101 merged pull-requests).

PROJECTS

Playree: Application for listening to your spotify playlists without any Ads on **Playree**. Here is the **Demo**.
Backend: Go | **Frontend**: JavaScript | **Message Broker**: RabbitMQ | **Storage**: PostgreSQL, Redis and Minio (S3 compatible)|
Authentication: Spotify OAuth| **Microservice Communication**: gRPC | **Session Management**: Cookies
Go-Vercel-App: Vercel clone written in **Go** using **microservice** architecture. Contains **4 services** working together.
Backend: Go | **Frontend**: JavaScript | **Message Broker**: RabbitMQ | **Storage**: PostgreSQL and Minio (S3 compatible)|
Authentication: Github OAuth and Email | **Microservice Communication**: gRPC | **Session Management**: Cookies
Quasar: **Video conference** application with a **collaborative code editor**. Here is the **Demo**.
Backend: Go | **Frontend**: JavaScript | **Communication**: WebRTC and Websockets | **Storage**: MongoDB(data for users, chats and chat rooms)| **Session Management and Authentication**: Cookies

EDUCATION

Bachelors of Engineering (Computer Science) 2021 – 2025