

# Akash Singh

Portfolio

Github: [SkySingh04](#)

Email: [akashsingh2210670@gmail.com](mailto:akashsingh2210670@gmail.com)

[LinkedIn](#)

Mobile: +91-938-259-8086

## EDUCATION

### Dayananda Sagar College Of Engineering

Bachelor of Engineering-Computer Science And Engineering

CGPA: 9.43

2022 - 2026

## TECHNICAL SKILLS

**Languages:** TypeScript, Golang, Python, JavaScript

**Technologies/Frameworks:** React, Gin, GraphQL, NextJs, NodeJS, Kafka

**Databases/Tools:** MongoDB, PostgreSQL, Git, CI/CD, Docker, GitOps, AWS, JIRA, Monitoring

## OPEN SOURCE CONTRIBUTION

### Google Summer Of Code

May 2024 - August 2024

Kepliy : Golang, Typescript, Scala, Bash, Svelte

Part time : Remote

- Integrated Kepliy to *VsCode* and *IntelliJ* via developing **cross-platform extensions** using various platform specific technologies and writing custom **Bash Scripts**.
- Submitted over 15+ Pull Requests to various projects across Kepliy integrating *CLI commands and flags* using **Cobra**, *Github Actions Workflow* for **TestGPT** and various Bug Fixes.

## EXPERIENCE

### CloudSEK

August 2024 - Present

Backend Engineer : GoLang, AWS, Kafka, OpenTelemetry

Full-Time : Onsite

- Led the backend development of multiple microservices in *CloudSEK Community Server* using **GoLang (Chi)**, **PostgreSQL**, with **AWS SQS** and **Apache Kafka**.
- Migrated the existing codebase to a **monorepo** structure, improving code reusability and streamlining cross-service collaboration.
- Deployed microservices with **Kubernetes** and **Docker**, integrated **AWS S3** for storage, and automated CI/CD pipelines using **ArgoCD**.
- Implemented monitoring with **Grafana**, **Loki**, and **Prometheus**, enhancing system reliability.

### Bolesale

December 2023 - February 2024

Full Stack Developer : React, Firebase, Redux, Zustand, GCP

Internship : Remote

- Built robust applications using *React*, *Firebase* emphasizing **RESTful** architecture, **Advanced State Management** using *Redux* and *Zustand* and implemented **CRUD** operations.
- Integrated a **Payment Dashboard** using *PhonePe* adhering to **ACID** principles, ensuring data integrity and scalability, leveraging **Google Cloud Platform**.

## PROJECTS

### HaalSamachar | GoLang, PostgreSQL, GraphQL, Docker, Kubernetes | Application | Infrastructure | Deployment

- Developed a cutting-edge blog platform using a **microservices** architecture, with *GoLang* for backend services and *PostgreSQL* for data storage, incorporating both **GraphQL** and **REST APIs**.
- Utilized *Docker* for **containerization** and *Kubernetes* for **container orchestration**, ensuring seamless deployment, scalability, and reliability of the application.
- Implemented **Continuous Integration/Continuous Deployment (CI/CD)** pipelines to automate testing and deployment workflows using **GitHub Actions** and **YAML** configuration files.
- Embraced **GitOps** principles to manage and deploy the infrastructure using **Terraform**, **Amazon ECR**, and **Amazon ECS**, inspired by industry practices.

### DNS Server | Rust, UDP | GitHub

- Built a **DNS server** from scratch in *Rust*, adhering to DNS protocol specifications for packet structure and communication over *UDP* with support for various record types such as **A**, **NS**, **CNAME**, **SOA**, **MX**, and **TXT**.
- Developed a **Stub Resolver** to extend DNS client functionality, adding methods for writing bytes and query names in labeled form, allowing for real-time testing and debugging.

## ACHIEVEMENTS

- Placed 1st Place Among 617 other participants in Hackbanglore 2024 Hackathon - May 2024
- Placed 1st Place Among 35 other teams in Hack-o-Rama 2024 Hackathon - January 2024
- Placed 2nd Place Among 83 other teams in Engigma 2023 Hackathon - December 2023
- Placed 3rd Place Among 62 other teams in Hackmanv7 Hackathon - June 2024