I am a versatile software developer with over 5+ years of professional experience in programming, architectural design, and technical development. I have a strong background in building backend microservices and leveraging cloud technologies to enhance system performance. A self-directed leader, I excel at fostering a collaborative and supportive team environment, ensuring everyone can contribute their best ideas and skills.

MIHIR KUMAR SINGH

Address
Hyderabad, India 500084

Phone
+919406014650

E-mail
mihirsingh1112@gmail.com

LinkedIn
https://www.linkedin.com/in/mihir-kumar-singh-a2a456130/

Website
https://mihirkumarsingh.github.io/portfolio/

Professional Experience

Lead Software Developer *2022-08 - Current*
UnitedHealth Group, Hyderabad

- Developed and deployed a **Kubernetes Operator in Go** to automate Kafka resource creation for **2,000+** production customers in GKE.
- Integrated **Elasticsearch** for efficient metadata search, reducing Kafka creation time.
- Designed **REST APIs handling 10,000+** daily requests, ensuring robust backend processing.
- **Mentored** 3+ engineers through code reviews and technical guidance to improve team performance.

Senior Software Developer *2021-03 - 2022-08*
UnitedHealth Group, Hyderabad

- Built a **Python app** for GitHub task automation, integrating with AWS S3 for schema storage, reducing PR analysis time by 50%.
- **Developed a role-based Admin Dashboard in Go** with secure APIs for PagerDuty alerts and ServiceNow ticket management, integrating GitHub API for issue tracking.
- Utilized **PostgreSQL** for scalable user data management.
- Ensured code quality and reliability with comprehensive **unit tests** in Go, achieving over **85% test coverage** to enhance system stability and reduce bugs.

Software Developer *2019-07 - 2021-03*
UnitedHealth Group, Hyderabad

- Deployed and managed **Kafka infrastructure, supporting over 2 petabytes** of data across on-premise and GCP cloud data centers, ensuring high availability and scalability.
- Built a robust **Java application using Spring boot**, designed to manage Kafka topics and their access control lists. The application is capable of creating topics from csv files, seamlessly integrated with Github, and exporting team data to **AWS S3**.
- Automated build and deployment of data platform components using **Terraform, GitHub Actions, Docker, and Kubernetes**, streamlining delivery and infrastructure management.
- Implemented **monitoring, observability, and telemetry** for platform components to enhance system visibility and operational readiness.
- Provided **on-call support** to resolve critical production issues outside of regular hours, ensuring system reliability.

Education

2015 - 2019 **B.Tech: Computer Science & Engineering**
National Institute Of Technology - Raipur
- Score: 09.41
- Grade: CGPA

2013 - 2014 **Higher Secondary Certificate**
Gyan Niketan - Patna
- Score: 93.00%
- Grade: PERCENT

Accomplishments

- Bagged 5 awards for development, creativity, leadership and collaboration that are among the 5 best qualities defined for an engineer in the organization.
- Star Award winner for various quarters in the Data Platform team at Optum.

Skills

Backend Development

Databases

Cloud platforms (GCP, AWS)

DevOps Practices

Kubernetes & Docker

Go

Python

C++

Core Java

DataStructure

Algorithms

Spring Boot