

**KARANJIT SINGH**  
PRINCIPAL SOFTWARE ENGINEER

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Principal Software Engineer with 12+ years of expertise in developing large-scale software systems using Golang and other technologies. Proven track record of leading high-performing teams, architecting scalable solutions, and delivering complex projects across multiple industries. Skilled in mentoring, optimizing performance, and driving operational excellence.

## SKILLS

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- Languages: Golang, Python, Shell Scripting
- Frameworks/Tools: Docker, Kubernetes, Microservices Architecture
- Cloud: Google Kubernetes Engine (GKE), Azure Kubernetes Service (AKS), AWS
- Databases: MySQL, PostgreSQL, Neo4J

## PROFESSIONAL EXPERIENCE

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### Software Developer at IBM Labs

DEC 2024 – Present

- Works in an agile, collaborative environment to develop robust software solutions for IBM Cloud.
- Specializes in back-end development with a strong focus on managing and optimizing IBM Cloud Bare Metal Servers and cloud-native applications with Kubernetes.
- Works with client-server architectures, networking protocols, and application development to create scalable, secure, and high-performance solutions.
- Develops and integrates RESTful APIs and web services to support seamless cloud operations and client interactions.

### Principal Software Engineer at CAST Software

Nov 2019 – Dec 2024

- Designed a Role-Based Access Control (RBAC) system, reducing authorization-related issues ensuring seamless integration with multiple platforms.
- Designed and implemented a scalable ETL queue system, improving data processing speed
- Optimized Neo4j query performance, cutting down execution time which enhanced system responsiveness.
- Mentored a team of 6 backend developers, improving overall code quality and boosting team productivity through continuous learning and technical guidance.

### Software Developer at Kloud9 Technologies

Mar 2018 – Oct 2019

- Developed a Kubernetes Custom Resource Definition (CRD) to automate resource management, improving scalability and reducing manual intervention in deployments.
- Created a custom CI/CD tool tailored for multi-cloud environments (GCP, AWS, OpenShift, Kubernetes), enhancing deployment success rates across 20+ projects by automating environment configurations.
- Designed a template engine for dynamically generating deployment pipelines, enabling teams to create custom workflows across various cloud platforms, improving deployment flexibility and speed.

- Designed and implemented an approval system that automated deployment propagation from development to QA, and QA to production, based on managerial approval, streamlining the release process and ensuring compliance.
- Standardized Kubernetes deployments on AWS, GKE, and AKS, reducing manual effort and accelerating release cycles through automation and workflow optimization.

### **Production System & Network Engineer at Flipkart Pvt Ltd**

Nov 2015 – Mar 2018

- Developed a hardware health monitoring system using Golang, Beego, Gorilla Mux, and Redis, enabling real-time monitoring of servers through the Intelligent Platform Management Interface (IPMI).
- Created and consumed REST APIs using Golang for the monitoring system, integrating with hardware to track server metrics such as temperature, voltage, and fan speeds.
- Built a live capacity planner to monitor resource availability across virtual machines, utilizing Golang, MySQL, and Beego to display real-time data in a dashboard.
- Managed over 21,000 Linux servers in multiple data centers, implementing system monitoring and alerting tools like Nagios and Splunk for high availability and performance.
- Automated system administration tasks and monitoring scripts using shell scripting for seamless operations and improved system reliability.
- Provided production support and handled user administration, key-based access, and virtualization management through KVM, ensuring system stability and security.

### **System Engineer at Brocade Communications System**

Apr 2015 – Nov 2015

- Developed Python and Shell scripts to automate Linux system monitoring, leading to 30% faster issue detection in the data center.
- Handled hardware issues for 600+ servers from vendors like HP, IBM, and Dell, coordinating with vendors for issue resolution.
- Built and configured servers from scratch, including managing Linux KVM servers and various guest operating systems.
- Managed file systems, resolved file system issues, and resized them using LVM; applied kernel patches to Linux servers.
- Centralized server log management using Splunk, created dashboards, and generated log analysis reports for performance monitoring.

### **System Engineer at Suksh Technology Pvt Ltd, Bengaluru**

Jan 2013 – Apr 2015

- Automated hardware provisioning and system configuration tasks using Python and Shell, reducing setup times by 35%.
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## **EDUCATION**

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Punjab Technical University

2012

**B.Tech in Electronics & Communication Engineering**