

**Bharath Krishna**  
[bharath.chakravarthi@gmail.com](mailto:bharath.chakravarthi@gmail.com)  
<http://bharathk.in>

+1-8574379316  
+91-7760779000

## Summary

- A full stack engineer with 14+ years of experience in IT field.
- Building AgenticAI solutions.
- Expertise building HPC cluster for LLM/ML model training.
- Designing and developing LLMOps pipeline for training, storing and model inferencing.
- Developing high available platforms for storing and versioning models.
- Expertise in RESTful API development using golang, python and their frameworks.
- Deep knowledge of Kubernetes (with CKA certification) and docker.
- Working knowledge of infrastructure-as-code tools like ansible and terraform.
- Good at building CI/CD pipelines using Jenkins, github actions.
- Experience in managing software development from inception to production.

## Strengths

- Can work as Devops and LLMOps engineer.
- Expertise in python and golang.
- Expertise in backend services development using python and golang.
- Knowledge in frontend application development using react, NextJS, ChakraUI.
- Working knowledge of various cloud services like GCP.
- Have strong exposure to agile-scrum development methodology.
- A quick learner having ability to work with multiple projects independently as well as in a team.

## Work experience

**May-2022 to present:**  
Senior Software Engineer, Rakuten USA, California

### Roles and Responsibilities:

- Building AgenticAI solutions for Rakuten's internal services.
- Managing LLM deployments to serve peak usage.
- Build apps with UI, API and CLI to submit training jobs in HPC clusters.
- Setup mlops pipeline for maintaining model development and deployment.
- Maintain high performance Kubernetes cluster.
- Setup model inference platform using BentoML.
- Setup and manage IAM service using Keycloak.
- Automate infrastructure setup using Terraform and Ansible.
- Setup DNS and Load balancer to access services hosted in HPC clusters.
- Writing custom K8S operators for automating common cluster operations.
- Manage a team of UI developers and Infrastructure engineers to provide reliable cluster and tools.

**Tech Specs:** Golang, Python, Kubernetes, Ansible, Terraform.

## Jan-2018 to May-2022:

Application Engineer, Rakuten, inc. Tokyo

### **Roles and Responsibilities:**

- Building infrastructure-as-a-code using terraform and ansible.
- Extending terraform with custom plugins and writing GoLang SDKs for company's cloud platform.
- Write testcases using pytest, load tests using locust to check the efficiency and stability of services.
- Developing toolkit for easy building, testing and deployment of REST APIs using FastAPI and Gin Gonic framework.
- Building authentication and authorization services using Keycloak and Kong.

**Tech Specs:** Golang, Python, Kubernetes, Ansible, Terraform, Graph DBs, AgenticAI.

## Sep-2014 to Dec-2018:

Application Engineer, Rakuten India Enterprise Pvt. Ltd. Bengaluru.

### **Roles and Responsibilities:**

- Building APIs for Infrastructure as a Service with VMware vSphere as backend.
- Building APIs for DNS as a service with SDKs for nomunum and infonlox backend.
- Building APIs for load balancer as a service with BigIP backend.
- Writing batch scripts and daily running jobs for collecting auth data using apache airflow.
- Lead team of 3 members by managing tasks, providing guidance on requirements.
- Worked as scrum master to supervise project progress with daily huddles and review meetings.
- Collaborating with different teams to get requirements and improve our services.

**Tech Specs:** Python, Ansible.

## Jan-2014 to Sep-2014:

Associate IT consultant, ITC infotech and Robert Bosch, Bengaluru.

### **Roles and responsibilities:**

- Provide support to the source code management tool (MKS and ClearQuest) hotline, automate the support task.
- Write PERL scripts to synchronize data from and to customer site.

**Tech Specs:** Perl

## Apr-2013 to Jan-2014:

Software Engineer, eHover Systems India Pvt. Ltd.

**Description:** Build cloud based personal surveillance system for working parents.

### **Roles and Responsibilities:**

- Development of a secure system/software to handle CCTV Cameras (using EC2), to capture.
- Store surveillance data in Amazon Cloud servers (in S3) using AWS SDK, development of web interface to access surveillance data using PHP and code igniter.

**Tech Specs:** Perl, PHP, AWS (S3, route53, EC2), ZoneMinder.

## Apr-2011 to Apr-2013:

Project Assistant, Dept. of P.G. Studies and Research in Biotechnology and Bioinformatics, Kuvempu University.

**Title:**

Studies on the dynamics of the Endotoxin neutralizing protein interaction Network (PIN) with Anti Inflammatory Molecules

**Roles and responsibilities:**

- Development of Perl modules for automated Molecular dynamic simulation of Endotoxin neutralizing proteins.
- Development of web application to analyze SBML files using python bindings of libSBML package

**Tech Specs:** BioPython, BioPerl, LibSBML, Gromacs,

**Sep-2010 to Feb-2011:**

Intern, Software developer, Institute of Bioinformatics and Applied Biotechnology (IBAB), Bengaluru.

**Roles and responsibility:**

- Build “Mammalian Gene Expression Database”
- Development of web app for maintaining bio-curator’s Data using PERL, Mysql, Java-script.

## Technical skills

**Languages and Web technologies:** Python, Golang

**Frontend development:** React, NextJS, ChakraUI

**ML Frameworks:** ONNX, PyTorch, tensorRT, NVIDIA triton, deepspeed, accelerate.

**Infrastructure management:** Ansible, Terraform

**Frameworks:** FastAPI, Gin Gonic

**Database:** Postgres, MongoDB, couchbase

**CI/CD and Build tools:** Jenkins, GitHub actions.

**Cloud Computing:** Kubernetes, GCP

## Certifications and recognitions

Successfully completed “Certified Kubernetes Administrator” Certificate program from Linux Foundation.

## Education

Acquired bachelor’s degree in biotechnology and master’s in Bioinformatics from Kuvempu University, Karnataka.

## Personal Profile

Name:

Hobbies & Interests:

Age:

Bharath Krishna

Date of Birth:

36 years

Gender:

28/10/1987

Nationality:

Male

Languages Known:

Indian

Kannada, English, Hindi, and Telugu.

Gardening and movie