

Bharath Krishna

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 nominum 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