# BHARATH KRISHNA

AI Architect & Full Stack Engineer

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## PROFESSIONAL SUMMARY

AI-focused architect and full stack engineer with 15+ years of experience designing and deploying enterprise-scale AI/ML systems. Currently leading AgenticAI solution development and LLM deployment infrastructure on high-performance Kubernetes clusters. Deep expertise in MLOps pipelines, model serving with TensorRT/PyTorch, and end-to-end AI solution architecture spanning NLP, GenAI frameworks, and production model monitoring.

| AI Architecture | LLMOps | MLOps | AgenticAI | Kubernetes |
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## TECHNICAL SKILLS

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|---|---|
| **AI / ML** | PyTorch, TensorRT, LLM Deployment, GenAI Frameworks, NLP, Model Serving |
| **Programming** | Python (15 yrs), Golang (7 yrs) |
| **MLOps & Infra** | Kubernetes (CKA), Docker, Ansible, Terraform, GCP |
| **Data & Backend** | PostgreSQL, MongoDB, FastAPI, Gin Gonic, Apache Airflow |
| **Frontend** | React, NextJS, ChakraUI |

## WORK EXPERIENCE

### Senior Software Engineer
**Rakuten USA**
*May 2022 – Present*

- Architecting and deploying AgenticAI solutions and LLM-based systems at enterprise scale
- Designing MLOps pipelines for model training, serving, and monitoring on HPC clusters
- Managing high-performance Kubernetes clusters for distributed ML workloads
- Developing UI/API/CLI tools for HPC cluster training job submission and orchestration
- Infrastructure automation using Terraform/Ansible; model deployment lifecycle management
- Custom Kubernetes operator development for AI workload scheduling; team leadership

### Application Engineer
**Rakuten, Inc. — Tokyo**
*Jan 2018 – May 2022*

- Designed Infrastructure-as-Code solutions with Terraform/Ansible for scalable compute
- Developed custom Terraform plugins and GoLang SDKs for platform automation
- Built REST API toolkits (FastAPI/Gin) powering internal AI platform services
- Implemented authentication services and load testing frameworks

### Application Engineer
**Rakuten India**

*Sep 2014 – Dec 2018*

- API development for IaaS (VMware), DNS, and Load Balancer infrastructure
- Led 3-member team as Scrum Master; Agile delivery of platform services
- Workflow automation and job orchestration via Apache Airflow

### Associate IT Consultant
**ITC Infotech / Bosch**

*Jan 2014 – Sep 2014*

- SCM tools automation and integration (MKS/ClearQuest)
- Data synchronization script development

### Software Engineer
**eHover Systems**

*Apr 2013 – Jan 2014*

- Cloud-based surveillance system architecture (AWS S3/EC2)
- Computer vision data pipeline and web interface development

### Project Assistant
**Kuvempu University**

*Apr 2011 – Apr 2013*

- Developed Python modules for molecular dynamic simulations and data analysis
- Built SBML file analysis web application using Python/LibSBML bindings
- Applied computational biology techniques: BioPython, BioPerl, Gromacs

### Software Developer Intern
**IBAB**

*Sep 2010 – Feb 2011*

- Mammalian Gene Expression Database development
- Data curation web application using Perl, MySQL, JavaScript

## EDUCATION

**M.Sc in Bioinformatics** — Kuvempu University, Karnataka
*Focus: Genomics, Drug Discovery, Protein Engineering*

**B.Sc in Biotechnology** — Kuvempu University, Karnataka
*Majors: Biotechnology, Botany, Computer Science*

## CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)

## ADDITIONAL

**Languages:** English, Hindi, Kannada, Telugu      **Interests:** Gardening, Movies