

Bharat Jangir

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Summary

Lead ML Engineer with 10+ years building and shipping software across robotics, embodied AI, healthcare, gaming, biosciences, and finance. Combines MLOps and platform engineering with hands-on work in real-time robot control, imitation-learning systems, agentic LLM operations, and regulated (21 CFR Part 11 / ISO 13485 / HIPAA) medical-device software — comfortable across Rust control loops, GPU inference infrastructure, full-stack applications, and infrastructure-as-code.

Skills

Robotics & Control	Real-time control, SocketCAN/CAN-FD, inverse kinematics (DLS/analytic), MPPI & A* planning, EKF sensor fusion, SLAM, hand-eye calibration, differential drive, WebXR teleoperation
Embodied AI & VLA	OpenVLA, diffusion policy, ACT, behavior cloning, LeRobot, MuJoCo/PyBullet, sim-to-real, imitation learning
ML & AI	PyTorch, TensorFlow, Scikit-Learn, LightGBM, MLflow, OpenCV, ROS/ROS2, Jupyter
LLM & GenAI	RAG, embeddings, vector search, agentic/multi-agent workflows, tool/function calling, LangChain, LangGraph, LlamaIndex, MCP, self-hosted vLLM, fine-tuning, OpenAI, Claude, Gemini, Med-PaLM
MLOps & DevOps	Kubernetes, Docker, Helm, Terraform, Ansible, Temporal, Jenkins, GitLab/GitHub CI/CD, Octopus Deploy, Snakemake
Cloud	GCP (GKE, Cloud Run, Cloud Batch, Cloud Functions), AWS, Azure, on-prem
Data & Storage	PostgreSQL, Redis, MinIO, BigQuery, Snowflake, Redshift, MongoDB, Elasticsearch, Hadoop, Hive
Languages	Python, Rust, C#, TypeScript/JavaScript, Swift, Java, SQL, PowerShell, Bash, Kotlin, Groovy, R
Monitoring	Prometheus, Grafana, Loki, Splunk, ELK (Elasticsearch, Logstash, Kibana)
Methodologies	MLOps, LLMops, DevOps, CI/CD, 21 CFR Part 11, ISO 13485, Agile, Scrum

Professional Experience

Lead ML Engineer , Tactus AI	May 2025 – Present
<i>Robotics and ML for diagnostic lab automation.</i>	
• Work across the robotics platform — real-time control, imitation learning, and autonomous navigation. • Build and operate the ML and GPU inference infrastructure behind it, self-hosted where privacy or cost requires. • Apply language models to infrastructure operations, with the evaluation and guardrails to roll out autonomy safely. • Maintain fleet infrastructure-as-code — provisioning, secrets, and disaster recovery as reviewed, auditable code. • Contribute to platform architecture and to software for regulated, medical-device settings.	
Lead MLOps Engineer , Kaiser Permanente	Dec 2024 – Dec 2025
• Led enterprise-wide ML strategy across research teams, improving architecture and system reliability. • Migrated monolithic Docker infrastructure to Kubernetes, increasing deployment flexibility and reducing downtime. • Designed ELK-stack monitoring for real-time visibility and faster incident response; optimized the Orthanc DICOM server with a distributed, concurrent architecture for large batched data loads.	
Senior Build Engineer , Rockstar Games	Jun 2024 – Dec 2024
• Led build automation across the .NET stack; managed TeamCity configurations via Kotlin scripts. • Built Terraform-managed infrastructure for Octopus Deploy servers; authored PowerShell build/deploy automation and resolved critical production build issues on an on-call rotation.	
Lead MLOps Engineer , Reveal Biosciences	Nov 2021 – May 2024
• Architected and maintained on-prem ML infrastructure for PyTorch/TensorFlow workloads, including GPU cluster setup; reduced storage costs 90% through block-storage optimization. • Led evaluation and deployment of LLM foundation models (Med-PaLM, GenAI) with MLflow lifecycle pipelines; improved availability via horizontal scaling, Kubernetes migration, and a Traefik ingress controller. • Managed on-site CPU/GPU allocation, quota, and storage (Samba/NFS) integrated with GCP bare-metal; directed ISO certification; established Terraform IaC; migrated a monolith to microservices (strangler pattern).	

DevOps Engineer, Susquehanna International Group

May 2019 – Nov 2021

- Supported ~1,500 developers as a rotational production lead; led containerization off a monolithic architecture and deployed BinderHub on Kubernetes.
- Maintained the ELK stack; built a C# release-note generator from DLL changes; integrated SonarQube/PVS-Studio; led migration from Perforce/TeamCity to GitLab and containerized Jenkins.

DevOps / Software Engineer, CloudCheckr

Nov 2016 – May 2019

- Engineered PowerShell modules and Packer AMIs for AWS configuration management; automated deployments with Terraform; established CI/CD in Bamboo and Jenkins; introduced Robot Framework with a Lambda/Docker parallel UI-testing wrapper.
- As Software Developer, implemented Azure reporting features (C#) and led version-control migration (SVN → Git) and ticketing to JIRA.

Earlier Experience & Research

Software Developer Intern, Rochester Institute of Technology

May 2015 – May 2016

- Built a C#/Python web crawler that corrected 100,000+ company names using Google Freebase data; built a course-evaluation system (Spring MVC, Java).

Teaching Assistant, Rochester Institute of Technology

2013 – 2015

- Supported graduate and honors courses in Analysis of Algorithms, Theory of Computation, and Cryptography — instruction, tutoring, and grading.

Graduate Research Assistant, Robotics, Rochester Institute of Technology

2013 – 2015

- Built computer-vision systems for autonomous robots — people/wall detection (HOG, Hough Transform) and QR-code navigation (ROS, Python, OpenCV).

Product Consultant Intern, Calero LLC

Jan 2014 – Aug 2014

- Built “Project Gemini” for Levenshtein-based ticket clustering and PDF handling (Java, SQL).

Education

M.S. in Computer Science, Rochester Institute of Technology

Sep 2016

B.E. in Computer Engineering, Ramrao Adik Institute of Technology

May 2011

Honors: 2nd place (of 40+ teams), RIT Summer Startup Program — built and shipped an iOS app in 10 weeks.