

KRISH PATEL

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Machine Learning Engineer with expertise in deploying production-grade AI systems at scale. Proven track record building secure LLM pipelines, containerized ML workflows, and observability solutions using AWS, Docker, and Terraform. Experienced collaborating across research and engineering teams to deliver robust, trustworthy AI systems.

PROFESSIONAL EXPERIENCE

Draper

Cambridge, MA

AI/ML Intern - COTS Drone Autonomy

June 2025 - Present

- Engineered secure software augmentation workflows to convert COTS drones into mission-ready platforms for DoD applications.
- Developed SysML models to validate drone system architecture, operator workflows, and simulation-based mission planning for reliability and trustworthiness.
- Collaborated with autonomy teams to ensure robust communication between drone dashboards and field operators.

Draper

Cambridge, MA

AI/ML Intern - LLMs and System Requirements

June 2024 - August 2024

- Built a secure, air-gapped LLM ecosystem using AWS SageMaker and Bedrock to analyze and mitigate technical debt in Systems Engineering documents.
- Designed and deployed a scalable Retrieval-Augmented Generation (RAG) pipeline to deliver production-ready insights for engineering teams.
- Led technical and user research across 30+ SMEs, consolidating findings into a forthcoming M.S. thesis and operational AI tool for Draper's SE lifecycle.

ArcField

Chantilly, VA

IT Intern

July 2023 – August 2023

- Developed a real-time network monitoring dashboard with Icinga and Prometheus in an Azure GCC-H environment.
- Integrated Grafana visualizations to track system health and trigger anomaly alerts.

AbbVie

Chicago, IL

Grafana & Prometheus Developer

June 2022 – March 2023

- Built scalable analytics pipelines to monitor enterprise EMR clusters on AWS.
- Implemented real-time anomaly detection with Prometheus and Grafana to ensure compliance in FDA-regulated systems.

EDUCATION

Worcester Polytechnic Institute

Worcester, MA

M.S. in Electrical & Computer Engineering

2024 – 2025

Worcester Polytechnic Institute

Worcester, MA

B.S. in Electrical & Computer Engineering

2021 – 2024

TECHNICAL SKILLS

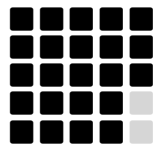
Python (ML Engineering, scikit-learn, PyTorch, XGBoost)

Cloud & MLOps (AWS SageMaker, Bedrock, Lambda)

Infrastructure (Docker, Kubernetes, Terraform, CI/CD)

Monitoring & Observability (Prometheus, Grafana)

Claude 4 Opus, LLM fine-tuning



PUBLICATIONS

- Exploring Intelligent Document Processing Technology for Discovering Requirements Debt in Systems Engineering Management Plans, PROCS15908, Procedia Computer Science

CERTIFICATIONS

- AWS Certified Machine Learning – Specialty (MLS-C01), 2025 – 2028
- AWS Solutions Architect Professional (SAP-C02), 2024 – 2027
- Microsoft Certified: Azure Solutions Architect Expert, 2022 – 2024
- Certified Kubernetes Application Developer (CKAD), 2021 – 2024