

KARTIK SWAMI

Full-Stack Developer " Machine Learning Engineer " DevOps & Cloud Engineer

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Full-Stack Developer and Machine Learning Engineer with practical experience across software engineering, AI/ML, cloud computing, and DevOps. BTech CSE candidate (Expected March 2027) at Arya College of Engineering, Jaipur, currently serving as Head of the College Technical Team and Technical Batch CR.

Across three industry internships, four hackathon podium finishes, and a growing set of personal engineering projects, has built production-ready web applications, end-to-end machine learning pipelines, and Kubernetes deployments on Amazon EKS. Experience spans the full software lifecycle designing scalable REST APIs and backend architecture, training and evaluating ML models, automating cloud infrastructure with Terraform, and deploying containerized applications with a personal daily-driver Arch Linux (Hyprland/Wayland) setup reflecting a hands-on approach to systems and tooling.

CORE EXPERTISE

Full-Stack Development: MERN Stack, Flask, Django, REST APIs, JWT, RBAC, OAuth, Figma, Cloudinary

Machine Learning: Data Cleaning, Feature Engineering, Computer Vision, Time Series Forecasting, Regression, Classification, Model Evaluation

DevOps & Cloud: AWS, Azure, Docker, Kubernetes, Amazon EKS, Terraform, Jenkins, Ansible, Linux, CI/CD, Infrastructure as Code

AI: LLM APIs, Generative AI, AI-Integrated Applications, Prompt Engineering

PROFESSIONAL EXPERIENCE

DevOps & Cloud Computing Intern LinuxWorld Informatics Pvt. Ltd.

Jun 2026 Jul 2026

Jaipur, India (On-site)

- " Completed an intensive Research-Based Industrial Training Program covering DevOps, cloud computing, infrastructure automation, containerization, Kubernetes, and cloud-native architecture
- " Designed and deployed production-style Kubernetes infrastructure on Amazon EKS Deployments, ReplicaSets, Services, Labels, Selectors, and LoadBalancers
- " Automated cloud infrastructure provisioning using Terraform modules (Infrastructure as Code); managed resources via AWS CLI and kubectl
- " Built and managed containerized applications with Docker; handled networking and rolling updates across Kubernetes deployments
- " Implemented CI/CD concepts and deployment automation using Jenkins and Ansible
- " Performed Linux administration and Bash scripting throughout the training program; used Git and GitHub across the full development lifecycle

Major Project Super Mario: Production Deployment on Amazon EKS

| Docker, Terraform, Amazon EKS, IAM, AWS Networking

- " Developed and deployed a production-style Kubernetes environment on AWS Dockerized application, Terraform-provisioned infrastructure, EKS cluster, LoadBalancer Service with public internet access, IAM configuration, and a Git-based deployment workflow

Software Developer Intern Vidhema Solutions

Jun 2025 Aug 2025

Jaipur, India (On-site)

- " Developed a complete Admin Panel & Dashboard CMS using the MERN stack, from schema design through deployment
- " Built secure REST APIs and implemented JWT authentication and role-based access control (RBAC)
- " Integrated Cloudinary for cloud-based image management, cutting media load times by roughly 30%
- " Developed dynamic content management features and an admin notification system; optimized application performance
- " Owned end-to-end deployment pipelines on Render and Netlify with Git-based CI/CD automation and environment secrets management

Machine Learning Intern Fox Trading xKSHITIJ, IIT Kharagpur (via 1Stop.ai)

Feb 2025 Apr 2025

Remote 59-Day Industrial Certification

- " Human Action Detection: end-to-end computer vision classification pipeline feature extraction, model training, evaluation, and deployment; mentor-validated and certified
- " Order Volume Prediction: regression and multi-step forecasting pipeline with feature engineering, cross-validation, and accuracy benchmarking (MAE, RMSE, MAPE)
- " Bike Sharing Demand Forecasting: time series modeling using ARIMA, ensemble methods, and LSTM; full preprocessing-to-inference workflow, delivered and certified
- " Campus Ambassador, 1Stop.ai enrolled 150+ students in AI/ML certification programs in a single day

NOTABLE PROJECTS

MetaGuide AI AI-Powered EdTech Platform

| React, Node.js, Express, MongoDB, LLM API, Google OAuth, i18next

- " Top 5 Finalist, CodeFiesta 4.0 100+ teams, 24-hour hackathon, GIT Jaipur; presented with a Lean Canvas, SaaS revenue model, and full competitive analysis

- Deep LLM pipeline: structured topic explanations auto-generate interactive HTML simulations rendered live in iframes, difficulty-tiered (Beginner / Intermediate / Advanced)
- RBAC (User / Super Admin), Google OAuth 2.0, multi-language support (English & Hindi), persistent database storage of all AI-generated content

Admin Panel & Dashboard CMS | *React, Express, MongoDB, Muler, Cloudinary*

- Content management system for blogs, interviews, and services with a full admin panel — JWT auth, RBAC, pagination, and modal-based edit workflows
- Built the services and interviews modules on a shared Express/MongoDB/Muler pattern with CRUD routes and image upload handling

Arya College Library Management System | *Python, Flask, SQLite, ID-Card Scan Automation*

- Replaced 100% manual library operations for 3,500+ students with an ID-card scan-based automated entry/exit system, eliminating manual record-keeping
- Full-stack Flask application with a fully migrated and managed student dataset; recognized by the college director; research paper in active submission

minimalLinux — Automated Linux Desktop Configurator | *Bash, Arch Linux, Hyprland/Wayland, Dotfiles*

- Built and published an automated Bash install script transforming a fresh Arch Linux + Hyprland/Wayland install into a fully configured desktop
- Handles pacman/AUR package management, dotfiles deployment, and timestamped configuration backup-restore with full uninstall support

ONGOING PROJECTS

Dress E-Commerce Platform (in development) | *NestJS, PostgreSQL, Prisma*

- Production-grade, backend-first women's dress e-commerce store built one module at a time; authentication complete, product catalog module in active development

2-Tier CI/CD Pipeline (in development) | *Flask, MySQL, Docker, Jenkins, Kubernetes*

- Adapting a Flask + MySQL 2-tier CI/CD pipeline reference architecture to run locally on Arch Linux instead of AWS EC2 — Docker Compose for local development, Kubernetes for deployment

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++, SQL, Bash

Frontend: React, Next.js, HTML, CSS, Tailwind CSS, Figma, Vite

Backend: Node.js, Express.js, Flask, Django, REST APIs, JWT, OAuth, RBAC

Databases: MongoDB, PostgreSQL, MySQL, SQLite

Machine Learning: Pandas, NumPy, scikit-learn, ARIMA, LSTM, Transformers, Computer Vision, Regression, Classification, Time Series Forecasting, Feature Engineering, Data Preprocessing

AI: LLM APIs, Generative AI, AI Integrations, Prompt Engineering, AI Pipeline Design

DevOps: Docker, Kubernetes, Amazon EKS, Terraform, Jenkins, Ansible, GitHub Actions, Linux, Git, GitHub, AWS CLI, kubectl, CI/CD

Cloud: AWS (EC2, IAM, S3, CloudFront, Lambda, SNS, RDS, VPC, Boto3), Azure Fundamentals, Azure DevOps

Tools & Infra: Postman, Cloudinary, Render, Vercel, Netlify, Linux (Arch, Hyprland/Wayland)

EDUCATION

B.Tech, Computer Science & Engineering — Arya College of Engineering, Jaipur | Expected March 2027

Head, College Technical Team • Technical Batch CR (4th Year) • Research Paper in Active Submission

CAREER HIGHLIGHTS

- 4× Hackathon Winner/Podium Finisher across Machine Learning, UI/UX, and Product Engineering — solo and team
- Machine Learning internship under Fox Trading in association with KSHITIJ, IIT Kharagpur
- DevOps & Cloud Computing internship at LinuxWorld Informatics Pvt. Ltd.
- Software Developer internship at Vidhema Solutions
- Production deployment of applications using Docker, Kubernetes, Terraform, and Amazon EKS
- Built and shipped multiple end-to-end machine learning solutions across computer vision, regression, and time series forecasting

CERTIFICATIONS

Automation Anywhere Certified Essentials Professional (valid Aug 2027)

IBM: Introduction to AI • Cybersecurity Fundamentals • Getting Started with Generative AI

HackerRank: SQL (Advanced) • Problem Solving (Intermediate)

openHPI: Time Series Analysis • Wolfram U: Visual Explorations in Data Science

Oracle • LinkedIn Learning • 365 Data Science