

Nayeem Fardin

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EDUCATION

Bachelor of Science in Computer Science and Engineering
Islamic University of Technology (IUT)

Expected Sep 2026

SKILLS AND INTERESTS

Languages	Python, JavaScript, C++, Java
Frontend & Backend	React, Tailwind CSS, Node.js, Express.js, FastAPI, REST APIs
AI & Machine Learning	LangChain, TensorFlow, RAG, Cohere, Gemini, OpenAI
Databases	PostgreSQL, Redis, InfluxDB, Pinecone, MongoDB, Qdrant
Cloud & DevOps	AWS, Docker, Kubernetes, Git, Nginx, Linux

PROJECTS

ShelfWatch

Python, YOLOv11, AWS, FastAPI, Docker, ONNX, Prometheus, ArgoCD, Helm, PLG Stack

[Github](#)

2026

- Fine-tuned and deployed **YOLOv11** on **AWS EKS** for dense retail product detection.
- Scalable inference service on **AWS EKS** using **Helm** + **ArgoCD** (GitOps-driven deployments).
- **4×** CPU inference speedup and **70-90%** cost savings via **INT8 quantization**, **AMX** and **Spot** diversification.
- Canary releases with **Argo Rollouts** + smoke tests; **loki/Prometheus/Grafana** for logging and observability.
- DevSecOps in **GitHub Actions** with **Trivy** and **pip-audit** for secure **ECR** promotion.

PixTools

FastAPI, Celery, RabbitMQ, Terraform, AWS, K3s, Redis

[Github](#)

2026

- Architected a dual-node K3s cluster on **AWS** (On-Demand control plane + Spot data plane) with full **Terraform** IaC and automated SSM reconciliation for async image processing queued through **rabbitMQ**
- Optimized cost with **EC2 Spot** and graceful eviction via **AWS Node Termination Handler**.
- Resilience under load with **Redis** idempotency keys, **pybreaker** circuit breakers, and **k6** stress tests.
- Zero-Trust **GitHub Actions (OIDC)** CI/CD; telemetry and traces to **Grafana LGTM** via **Alloy**.
- Decoupled ML inference from fast conversions via dedicated queues to prevent worker starvation.

StatusMonitor

FastAPI, React 19, Apache Kafka, InfluxDB, PostgreSQL, Docker

[Github](#)

2025

- Distributed monitoring platform with **FastAPI** microservices (ingestion/auth/alerting) across **Docker**, designed for independent scaling.
- Windows agent (**psutil** + **PDH**) streaming metrics via **Kafka** to decouple producers/consumers.
- Reduced alert noise with in-memory cooldowns; real-time **Telegram** alerts + full history for auditability.
- Lowered storage cost using **InfluxDB** downsampling + tiered retention; secured onboarding with **Argon2** + **JWT** (short-lived refresh).

Crawler RAG DocHelper

Python, LangChain, Pinecone, Gemini 2.5, Cohere

[Github](#)

2025

- Hybrid-search RAG for docs using **Semantic** (HuggingFace) + **Keyword** (BM25) retrieval in **Pinecone** to boost relevance.
- Automated ingestion by crawling `11ms.txt` via **Tavily** with caching to avoid redundant fetches.
- Added **Cohere Rerank** before **Gemini 2.5** generation to reduce noisy context.
- Exposed query-time alpha-weighting to tune keyword precision vs semantic recall.

INTERNSHIP / TRAININGS

CyberSecurity Internship

Backdoor Private Limited

- Digital forensics analysis to recover sensitive deleted artifacts using **FTK Imager** and **Autopsy**.
- Security assessments on Android applications via **MobSF** and web platforms using **Burp Suite** and **SQLMap**.