

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
<ul style="list-style-type: none">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).4x 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Hybrid-search RAG for docs using Semantic (HuggingFace) + Keyword (BM25) retrieval in Pinecone to boost relevance.Automated ingestion by crawling <code>1lms.txt</code> 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
<ul style="list-style-type: none">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.	