

Adnan Taufique

FULL-STACK AND AI ENGINEER

Dhaka, Bangladesh | md.adnantaufique@gmail.com | github.com/adnantaufique | linkedin.com/in/adnan164

SUMMARY

Software engineer since 2018 who turns business requirements into working software people use. Ships full-stack products end to end, from storefronts and back offices to payments, accounting, and monitoring, and the AI inside them: computer vision, LLM agents, and production ML. Builds with AI agents in the loop, backed by security testing, monitoring, and verified output.

EXPERIENCE

Fenlo AI

2026 – Present

FOUNDER — [FENLOAI.COM](https://fenloai.com)

- Small team building working AI systems for small businesses: workflow automation (n8n, Make), custom software such as internal dashboards and client portals, and AI agents for decisions and customer service.

Polyfins Technology Inc.

Oct 2018 – Present

SENIOR ML ENGINEER

Healthcare AI — Skin condition management

- Led AI team developing eczema and psoriasis progression detector using full body detection, segmentation, skin area measurement, and automated BSA and EASI scoring.
- Deployed system using PyTorch, HuggingFace, and ONNX Runtime for clinical-grade inference within CPU constraints.
- Developed personalised skin condition forecasting tool and ensemble classifier using images and tabular data with model explainer service.
- Built deep document retriever and Q&A matching system for skin diseases and recommendation engine for insurance and truck companies.
- Technologies:** PyTorch, ONNX Runtime, HuggingFace, Docker, Kubernetes, GCP, KubeFlow, FastAPI, Flask **Models:** EfficientNet, UNet++, YOLO, QWEN-2.5VL

CruiseIQ — AI-powered car buying assistant (Cirrion) | [Sep 2025 – Present](#)

- Built AI agent backend powering vehicle search, deal scoring, market analysis, and comparison features.
- Technologies:** Python, FastAPI

Loya — Rewards platform (Cirrion) | [Apr 2026 – Present](#)

- Building receipt scanning and data extraction module; benchmarked PaddleOCR, Tesseract, Gemini Flash, Claude Haiku, and GPT-4.1 mini across accuracy and cost.
- Implementing hybrid extraction pipeline using GPT-4.1 mini and Gemini Flash 2.5 for robust image-based receipt understanding.
- Technologies:** Python, FastAPI, GPT-4.1 mini, Gemini Flash 2.5, PaddleOCR, Tesseract

Ekagra Health

Jun 2025 – Present

SENIOR SOFTWARE ENGINEER (PART-TIME)

- Build deep-learning models and add-on apps on top of EMR/EHR systems used by clinicians.
- Researched and trained a YOLO-based wound segmentation model for automated wound boundary detection and measurement.
- Built a wound assessment tool integrated with the EMR, and a HIPAA-compliant file browser for secure patient document management.
- Technologies:** Python, FastAPI, JavaScript, PyTorch, YOLO

NITEX

Dec 2022 – Aug 2024

AI ENGINEER (CONSULTANT)

- Led 4-member AI team architecting and deploying production solutions in fashion e-commerce.
- Deployed and maintained multi-modal computer vision and NLP services using NVIDIA Triton, Docker, and Nginx.
- Built from scratch: text and image based search system, table and text extraction from documents, scalable data scraping and tagging platform for 40+ fashion e-commerce sites and Instagram accounts, fashion attribute extraction and segmentation from clothing items.
- R&D: Trend Research Platform, Virtual Try-On.
- Technologies:** NVIDIA Triton, OpenAI, HuggingFace, Docker, AWS, GCP, Elasticsearch, PostgreSQL, Weaviate, MongoDB, Apache Airflow, Azure Document Intelligence, FastAPI **Models:** Llava, Llama, DeepSeek-VL, OpenAI GPT API, OpenCLIP

RELEVANT PROJECTS

E-commerce Store and Back Office — ATM Company

2026

FULL-STACK ENGINEER — BUILT WITH AGENTIC DEVELOPMENT

- Built a customer-facing storefront and the back office behind it end to end, from business requirements to a deployed product.
- Integrated payment gateways (iPOS pays, Stripe), QuickBooks accounting, Geoapify and Open Places location data, transactional email, and Better Stack monitoring.
- Ran security testing across the storefront and back office before launch.

dreamteam — Multi-Agent Delivery Harness

2026 – Present

OPEN SOURCE — [GITHUB.COM/ADNANTAUFIQUE/DREAMTEAM](https://github.com/ADNANTAUFIQUE/DREAMTEAM)

- Built an open-source Claude Code meta-harness for independently-verified multi-agent delivery: a "Caster" assembles a crew of specialist agents per task, every workstream passes a mandatory verification gate, and one produce → gate → fix → integrate loop covers build, audit, research, and QA.
- An independent "Reality Checker" re-runs the tests and matches each claim to evidence — mutation-checked, so a passing test that survives a deliberately broken implementation is rejected. Runs cross-CLI on Claude Code, Codex, Gemini, CodeWhale, OpenCode, and Cursor.

Computer Vision Based Evaluation for Eczema Patients

Mar 2022 – Apr 2025

POLYFINS TECHNOLOGY INC. — DHAKA, BANGLADESH

- Combined image classification, segmentation, and multi-task deep learning models to detect, classify, and evaluate disease progression in eczema patients from a single full-body image.
- Extracted BSA and EASI index scores used by dermatologists for clinical diagnosis and evaluation.
- **Technologies:** PyTorch, OpenCV, HuggingFace, ONNX Runtime, FastAPI

AI Virtual Room Staging Backend

Dec 2025 – Jan 2026

FREELANCE

- Built backend API for a real estate company enabling AI-powered virtual room staging with furniture removal and interior design modification.
- Evaluated SDXL, Flux 1 and Flux 2 with depth-based ControlNets; implemented constrained generation pipeline using Gemini Flash 2.5 and Gemini 3 Pro.
- **Technologies:** Python, FastAPI, SDXL, Flux, ControlNet, Gemini Flash 2.5, Gemini 3 Pro

EDUCATION

Ahsanullah University of Science & Technology (AUST)

Apr 2014 – Jun 2018

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

PUBLICATIONS

Md. Adnan Taufique, F. Rahman, Md. Imrul Kayes Pranta, Nasib Al Zahid, Syeda Shabnam Hasan. *Handwritten Bangla Character Recognition using Inception Convolutional Neural Network*. International Journal of Computer Applications. 2018. doi: 10.5120/ijca2018917850.

TECHNICAL SKILLS

Programming	Python, JavaScript
ML Libraries	NumPy, Pandas, OpenCV, Scikit-Learn, TensorFlow, PyTorch, PyTorch-Lightning, ONNX, Tesseract, MediaPipe, HuggingFace, Transformers, NVIDIA Triton, Ollama, Wandb, KubeFlow
Models	Llava, Llama, DeepSeek-VL, OpenAI GPT API, GPT-4.1 mini, OpenCLIP, EfficientNet, UNet++, YOLO, QWEN-2.5VL, Gemini Flash 2.5, Flux, SDXL
Web Frameworks	FastAPI, Django, Streamlit
Web Scraping	Playwright, Selenium, BeautifulSoup, Requests, Httpx
Cloud	AWS, Google Cloud
Databases	PostgreSQL, MySQL, Elasticsearch, MongoDB, Weaviate
DevOps	Git, GitHub, Bitbucket, Docker, Kubernetes, Jira

LANGUAGES

English — High Proficiency (IELTS 8.0)
Bengali — Native Speaker

COURSES

- Coursera Deep Learning Specialization
- AI for Medicine Specialization
- Udacity Deep Learning Nano Degree
- Google Data Analytics