

Rafay Adeel

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Full Stack & Automation Engineer and cum laude CS graduate building production web apps, APIs, AI/ML and computer vision systems, and workflow automation. Experienced across React/Node.js/Python backends, PyTorch/OpenCV models, LLM integrations and cloud tooling. Open to full-time roles, onsite (Faisalabad, Lahore, Islamabad, abroad) or remote.

Technical Skills

- **Languages:** Python, JavaScript, TypeScript, C++, C, C#, SQL, Bash
- **Full Stack & APIs:** React, Next.js, Node.js, Express, Flask, FastAPI, REST, GraphQL, OAuth 2.0/JWT, Tailwind CSS
- **AI/ML & Computer Vision:** PyTorch, TensorFlow, OpenCV, ONNX Runtime, Hugging Face, Scikit-learn, Pandas, NumPy
- **Automation:** Google Apps Script, Google Sheets, Webhooks, OpenAI & Claude APIs
- **Data & DevOps:** PostgreSQL, MongoDB, SQLite, Supabase, Prisma, Docker, Kubernetes, AWS, Git, Prometheus, Grafana

Education

FAST NUCES

BS Computer Science, Cum Laude (CGPA: 3.68)

Faisalabad, Pakistan

Aug. 2022 – June 2026

Experience

TheBrandSpur

Full Stack & Automation Engineer

Faisalabad, Pakistan (Onsite)

Aug. 2026 – Present

- Build Python/Apps Script pipelines from APIs, FTP and databases powering inventory models (EOQ, safety stock, ABC).
- Design REST/GraphQL APIs (OAuth 2.0, JWT) and integrate e-commerce, ERP, 3PL and warehouse systems via webhooks.
- Deliver KPI dashboards, supplier scorecards and threshold alerts with automated reports to email, Slack and Teams.
- Integrate Claude/OpenAI APIs into ops chatbots and NLP workflows for email classification and contract extraction.

Turing

AI Conversation Designer (Freelance)

Remote

Sept. 2025 – Nov. 2025

- Designed multi-turn datasets, prompts and tool-use workflows for training AI assistants; ran failure analysis and adversarial testing.

Nexium Global Ltd

AI-First Web Development Intern

Remote

July 2025 – Aug. 2025

- Developed Node.js/Flask REST APIs and data-processing modules for AI-powered features, integrated with React frontends.

FAST NUCES

Teaching Assistant: PF, OOP, Linear Algebra, Software Design, Database Systems

Faisalabad, Pakistan

2023 – 2026

Projects

HPC Cluster Control System | React, Node.js, Flask, SQLite, SLURM, Docker, Ansible, Prometheus, Grafana

- Built a distributed web platform to schedule and dispatch SLURM jobs across cluster nodes, replacing manual SSH workflows.
- Multi-service architecture (frontend, REST backend, worker agents) with RBAC, secure job validation and Prometheus/Grafana monitoring.

Veritas: Forensic Image Analysis Toolkit | Python, OpenCV, Streamlit

- Forgery-detection web app with 13 CV techniques: ELA, PRNU fingerprinting, FFT/DCT analysis, copy-move, resampling and deepfake artifacts.

Real-Time Object Detection Web App | React, YOLOv8, ONNX Runtime Web, WebGPU

- Privacy-first YOLOv8 running fully in-browser on WebGPU at 10–30 FPS, with multi-camera support and offline use.

Corrective RAG System | FastAPI, React, Pinecone, LLMs

- Self-correcting RAG that LLM-grades retrieved chunks and falls back to web search, reducing hallucinations.

Deep Learning Models | PyTorch, ResNet50, LSTM, ViT, Hugging Face

- Trained from scratch: ResNet50+LSTM captioner on Flickr30k (31,783 images; BLEU/METEOR/ROUGE) and a ViT masked autoencoder on TinyImageNet.

Achievements & Certifications

Achievements: Cum Laude (2026) ■ Dean's List (Fall '22–Fall '25) ■ Silver Medal (Fall '22)

Certifications: • **IBM:** Python for AI & Data Science

• **Google:** Cybersecurity, Project Management, Data Analytics, IT Support

Interests: Research in computer vision and applied machine learning; aiming to pursue graduate studies.