

Hisham Barakat

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Education

Master in Computer Science, Peking University

Sept 2023 – Present

- **Courses:** Computational Vision, Reinforcement Learning, Computer Networking, Advanced Systems.
- Optimize Jittor backend for TensorLayerX's multi-backend AI framework.

Bachelor of ICT, Bahrain Polytechnic

Sept 2017 – May 2021

- **Courses:** Data Center Mgmt, Advanced Networking, Programming, IT Project Mgmt.

Technical Skills

Languages: Python, C++, Java, SQL, YAML

Technologies: PyTorch, TensorRT, Diffusion, Hugging-Face Transformers, LangChain, PEFT, BitsAndBytes, OpenAI, Anthropic/Claude, FastAPI, Uvicorn, Flask, Docker, Kubernetes, AWS, GCP, Power-BI, Git, CUDA

Experience

Lead AI Engineer (collaborative project), Jiangsu Huaxiang Digital Technology Group Co.,Ltd

Sept 2024 – Present

- Architect a scalable image & video generation platform, expanding from **3 to 30 models** for local and **API-based** deployment.
- Achieve a **95%** inference speedup through **TensorRT** and custom model-optimization techniques.
- Fine-tune multilingual **LLM, ASR, and TTS** models using **Transformers, LoRA, PEFT, and Unsloth**.
- Deploy containerized **Docker** services on cloud platforms, with custom logging to measure API performance & errors, centralize logs in an OSS stack, and visualize metrics via **Power-BI** with alerts for anomalies.
- Implement **auto-scaling** policies to handle load spikes, ensuring consistent latency and availability.
- Lead a team of **3 junior engineers**, enhancing productivity with **hands-on mentorship, code reviews**, and shared best-practice guidelines.

IP Engineer, Huawei Technologies Bahrain W.L.L

Sept 2022 – Aug 2023

- Developed **Python-driven automation** scripts that cut network deployment time by over **50%**.
- Performed network **patching, deployment**, and maintenance for multiple clients under strict SLAs, ensuring **100%** network availability.

Data Science & AI Engineer, Tatweer Petroleum

Sept 2021 – Aug 2022

- Collaborated with two production teams to aggregate and clean over **1M data points** from **6** systems using AWS.
- Conducted diagnostic analyses to uncover **root causes of oil loss**, driving process changes that saved over **\$100K**.
- Developed and automated **15+ Power-BI reports**, reducing manual extraction workload by **10% and improving team efficiency**.
- Presented findings and recommendations to stakeholders, fostering cross-functional collaboration and data-driven decision-making.

Solutions Architect Intern, Amazon Web Services

Feb 2021 – Jun 2021

- Implemented a cost-effective, end-to-end serverless face-mask detection dashboard using **AWS Rekognition, Lambda, S3, and DynamoDB**—cutting expenses by **95%**.
- Deployed **Amazon DeepLens** for facemask detection with over **90%** accuracy and integrated **Lambda** functions with other AWS services.
- Led a team of **5** developers, communicated requirements and progress to customers, and monitored system health via **CloudWatch**.

Awards and Certifications

- **AWS Certified Machine Learning - Specialty**
- **Commendation Letter from Huawei Bahrain CEO**
- **Huawei ICT Competition 2019:** 2nd Place Middle East; 3rd Place Regional & National