Hisham Barakat

Lead AI Engineer — Scalable ML Solutions — 95% Inference Optimization

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hishambarakat16.github.io

Education

Peking University   Sept 2023 – Present
Master in Computer Science   *Beijing, China*
- **Courses:** Computational Vision, Reinforcement Learning, Computer Networking, Advanced Systems.
- Optimized Jittor backend for TensorLayerX's multi-backend AI framework.

Bahrain Polytechnic   Sept 2017 – May 2021
Bachelor of ICT   *Isa Town, Bahrain*
- **Courses:** Data Center Mgmt, Advanced Networking, Programming, IT Project Mgmt.

Skills

Languages: Python, C++, SQL, YAML

Technologies: PyTorch, TensorRT, Diffusion, LLMs, Flask, Docker, AWS, Kubernetes, Power BI, Git, CUDA.

Experience

Jiangsu Huaxiang Digital Technology Group Co.,Ltd   Sept 2024 – Present
Lead AI Engineer (Collaborative Project for Jiangsu Huaxiang)   Remote
- Architected a scalable AI image generation app, expanding from **3 to 30 models** (text-to-image with 21 styles, upscaling, face/style transfer) for local and API-based deployment.
- Achieved **95%** inference time reduction (from **20s to less than 1s**) by optimizing upscaling processes with TensorRT for GPU acceleration, enhancing user experience.
- Designed independent pipelines for diverse model types (SDXL, SD1.5, custom variants), optimizing resource allocation and request handling on constrained hardware.
- Led a team of **3 junior engineers**, providing mentorship and skill-building sessions to ensure effective contributions and project continuity.
- Spearheaded transition to cloud deployment, building CUDA-ready Docker containers to enable seamless production scaling and operational efficiency.

Huawei Technologies Bahrain W.L.L   Sept 2022 – Aug 2023
IP Engineer   Seef, Bahrain
- Automated configuration scripts, boosting efficiency by **50%**.
- Ensured **100%** network connectivity through rapid troubleshooting.

Tatweer Petroleum   Sept 2021 – Aug 2022
Data Science & AI Engineer   Awali, Bahrain
- Cleaned **1M** data points from **6** systems, enabling diagnostics for **300+** wells.
- Developed ML models to enhance oil recovery across **300+** wells.

Amazon Web Services   Feb 2021 – Jun 2021
Solutions Architect intern   Manama, Bahrain
- Built a serverless Face-Detection Dashboard with **90%+** accuracy, reducing costs by **95%**.
- Managed **5** developers to integrate Lambda with S3/DynamoDB.