

Mayas AL KHATEEB

Damascus, Syria · (+963) 993153157 · alkhateebmayas997@gmail.com
Portfolio: mayas-alkhateeb · LinkedIn: mayas-alkhateeb · GitHub: GitGud-f

About Me

AI & Software Engineer (Top Student, HIAST) specializing in **Computer Vision, Edge AI, and High-Performance Systems**. Experienced in knowledge distillation, document intelligence, biometric verification, and low-level optimization (CUDA, MPI, C++).

Education

Higher Institute for Applied Science and Technology (HIAST) Damascus, Syria
BSc in Informatics Engineering (AI & Software Engineering) Oct 2021 – Aug 2026

- **Academic Standing: Ranked 1st in Cohort** (Top Graduate).
- **GPA:** Cumulative: **89.0%** · Recent Year: **94.21%**.
- **Key Coursework:** Deep Learning, Computer Vision, Parallel Computing (CUDA/MPI), Compiler Design, Advanced Algorithms, Image Processing, Distributed Systems, Numerical Analysis.

Technical Skills

- **AI & Computer Vision:** PyTorch, OpenCV, YOLOv8/YOLOv10, Knowledge Distillation, MobileViT, ONNX Runtime, Hugging Face Transformers, Gymnasium (RL).
- **Languages & HPC:** Python, C/C++, CUDA C++, MPI / OpenMPI, OpenMP, SQL, C#, Java, Rust, Bash.
- **Backend & Deployment:** FastAPI, Flask, Docker, Git/CI-CD, Model Quantization, Linux.

Selected Projects

SyriaHuwiya: Enterprise eKYC & Liveness Detection Platform *Graduation Project*

- Engineered an end-to-end digital identity verification platform featuring custom biometric face matching optimized for low-resource localized datasets.
- Implemented active and passive anti-spoofing liveness detection based on facial geometry and landmark dynamics.
- Architected a microservices backend with polyglot storage, JWT-based security, and a multi-tenant developer API portal.

Delta: Lightweight Monocular Depth Estimation for Mobile *[GitHub]*

- Distilled a heavy DPT model into a lightweight MobileViTV2 student with a custom MiniDPT decoder.
- Combined SILog loss with feature, gradient, and self-attention distillation, retaining **92% accuracy** ($\delta < 1.25$).
- Cut inference latency from 10,000 ms to **170 ms on iPhone 13 (58x speedup)**; deployed on-device via ONNX & Flutter.

DocParse: Multi-Stage Document Reconstruction Pipeline *[GitHub]*

- Built a 4-phase CV pipeline converting distorted phone photos into structured, searchable vector PDFs.
- Implemented geometric perspective correction with CLAHE contrast enhancement and multi-channel edge analysis.
- Integrated YOLOv10 layout segmentation with recursive XY-cut reading order resolution and adaptive Tesseract OCR.

MiniPascal Compiler *[GitHub]*

- Built a full-scale compiler from scratch using **Flex** (Lexical Analysis) and **Bison** (Syntax Analysis).
- Handled complex features like **recursive functions**, operator overloading, and multi-dimensional arrays.

Experience & Leadership

Competitive Programming Coach (ICPC) HIAST · 2025 – 2026

- Mentored university teams in data structures, graph theory, DP optimizations, and computational geometry.

RISE-MICCAI Summer School Participant July 2025

- Intensive training in high-precision Medical Image Analysis and Deep Learning segmentation/classification architectures.

Honors & Awards

- **Top Student Award:** Ranked 1st across cohort at HIAST (89% GPA).
- **Silver Medal:** HIAST Collegiate Programming Contest (CPC).