Seif Ashraf

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EDUCATION

École Polytechnique de Montréal   Montréal, QC
M.A.Sc in Computer Engineering, GPA: 4.0/4.0   *Expected Graduation: Dec. 2025*

The American University of Cairo (ABET Accredited)   Cairo, Egypt
B.Sc. in Computer Engineering, GPA: 3.7/4.0, High Honors, Dean's List   *Sep. 2018 – Jun. 2023*

WORK EXPERIENCE

Fotopia Technologies   Jul. 2023 – Dec. 2023
Software Engineer   *Cairo, Egypt*

- Optimized the backend infrastructure reducing the average response time from 121ms to 39ms.
- Reimplemented the documents scan client which led to 60% increase in the overall performance.

NASA Jet Propulsion Laboratory   May 2023 – Jul. 2023
Research Intern   *La Cañada Flintridge, CA (Remote)*

- Worked on an openCAESAR Project to utilize LLMs to generate software models from documents.
- Conducted experiments on GPT-3.5 to generate UMLs from knowledge bases.

Genify   Jun. 2022 – Aug. 2022
Software Engineering Intern   *Dubai, UAE (Remote)*

- Constructed the backend for Genify's Personal Financial Management (PFM) product suite.
- Enhanced PFM functionality by conceptualizing and implementing new features.
- Established an automated API testing framework, meticulously documented for ease of use.

Tactful   Aug. 2021 – Sep. 2021
Software Engineering Intern   *Cambridge, UK (Remote)*

- Co-created Flask FastX,, an open source project aimed at constructing a type-safe framework for efficient development and declaration of Python 3.x-compatible RESTful APIs.
- Developed an API model generator accompanied by unit tests, capable of managing intricate data types extracted from API requests.

PROJECTS

GPU Accelarted Dataflow Analyser | *C++, CUDA*   Jan. 2023 – May. 2023

- Developed a GPU-accelerated implementation for dataflow analysis, achieving a remarkable speedup of up to 250 times compared to CPU-based approaches.
- This project significantly enhances bug detection efficiency and enables faster and more precise analysis in software development environments.

Twitter Sentiment Analysis | *Python, Tensorflow*   Jan. 2023 – May. 2023

- Built a neural networks model to classify tweets based on their sentiment

Flask Fastx | *Python, Flask*   Aug. 2021 – Dec. 2021

- Flask Fastx is an Open Source Project based on Flask-RESTX with a FastAPI style.
- With Flask-Fastx and the autowire decorator feature, parsing path parameters and creating api models is done using only one decorator.

SKILLS

C/C++, Python, C#, ASP.NET, React, NodeJS, NextJS, Docker, MongoDB, Azure, TypeScript, Flask, SQL, AWS.

Awards and Competitions

- Egyptian Public School Full Scholarship (PSSF) Awardee - Full-tuition funding for undergraduate studies at The American University in Cairo

- 2nd Place in ACM AUCCPC '20

- ACM ECPC '20 '21 Finalist

- 1st place in the AUC Robotics Line Follower Competition

Extracurricular Activities

AUC ICPC Community   Mar. 2021 – Present

Co-Founder   *Cairo, Egypt*

- Co-founded with some of my colleagues the first ACM ICPC community ever in my university.
- Conducting some sessions in Data Structures and Algorithms to prepare students to participate in the ACM CPCs

AUC Student Union   Aug. 2021 – Jan. 2022

Backend Systems General Manager   *Cairo, Egypt*

- Led the comprehensive reconstruction of the backend system, covering design, implementation, testing, and deployment phases.
- Achieved a seamless deployment of the system on AWS, ensuring robust scalability, reliability, and optimal performance.