

Seif Ashraf

Montreal, QC, Canada | +1 (438) 543-2966 | seifashraf145@gmail.com | [linkedin.com/in/seifashraf](https://www.linkedin.com/in/seifashraf) | github.com/seifashraf1

EDUCATION

Polytechnique Montréal

M.A.Sc in Computer Engineering (Software Engineering Specialization)

Montréal, QC

Jan. 2024 – Dec. 2025

The American University of Cairo (ABET Accredited)

B.Sc. in Computer Engineering, GPA: 3.7/4.0, High Honors, Dean's List

Cairo, Egypt

Sep. 2018 – Jun. 2023

WORK EXPERIENCE

Fotopia Technologies

Software Engineer

Jun. 2023 – Nov. 2023

Dubai, UAE (Remote)

- Managed critical front-end and back-end aspects of the company's key product.
- Refactored and migrated the backend microservices reaching 2x speedup in performance.
- Implemented containerization for streamlined management of backend microservices.
- Technologies:** C#, ASP.NET, NodeJS, NextJS, Python, Docker, MongoDB, Azure, TypeScript, Unit testing, Scripting/Automation.

Genify

Software Engineering Intern

Jun. 2022 – Aug. 2022

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.
- Technologies:** Python, Flask, SQL, API test automation.

AUC Student Union

Backend Systems General Manager

Aug. 2021 – Jan. 2022

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.
- Technologies:** NodeJS, AWS, SQL, React Native.

Tactful AI

Software Engineering Intern

Aug. 2021 – Sep. 2021

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.
- Technologies:** Python, Flask.

PROJECTS

GPU Accelerated Dataflow Analysis | 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, achieving

Flask Fastx | Python, Flask

Aug. 2021 – Dec. 2021

- Built in a team an Open Source Project called Flask Fastx which is an extension to the Flask Restx API with a FastAPI style.
- Flask Fastx saves you many lines of code when it comes to create an end point in your API by using the autowire decorator.

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

IEEE AUC Branch

Feb. 2021 – May. 2021

IEEE Magazine Editor-in-Chief

Cairo, Egypt

- Head of the IEEE AUC Magazine which aims to deliver computer science knowledge to every student