Mohamed Saif Software Engineer

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Education

Bachelor of Computers and Systems Engineering,
Zagazig University
2017 – 2022 | Zagazig, Egypt
- Led multiple university projects and served as the leader of my graduation project.
- Actively participated in student activities, including IEEE, Algorithms Workshop, and the Robotics and Automation Society.

Skills

Programming Languages
Python, SQL, C, Javascript, Scheme

Frameworks and Tools
Fastapi, Frappe, ERPnext, Pytest, Docker, RQ

Databases
PostgreSQL, EdgeDB, MariaDB, Redis

Cloud
IAM,
Simple Storage System (S3),
Elastic Compute Cloud (EC2),
Monitoring and Logging (CloudWatch),
Containers, ECS & ECR,
Infrastructure as Code (CloudFormation),
Lambda

Projects

pytest-frappe, *Core Maintainer* ☐
A pytest plugin for testing Frappe applications providing a set of pytest fixtures and more.

Fastapiusers-edgedb, *Core Maintainer* ☐
An Edgedb adapter for fastapi-users, providing seamless integration of Edgedb as the authentication backend for fastapi applications.

Text summarization API ☐
Developed a robust text summarization API leveraging advanced Natural Language Processing (NLP) techniques.

Enabled, *Graduation Project*
An open-source multi-tenant plugin-based LMS with advanced machine learning models, including a large language model like ChatGPT, for tasks like lecture summarization.

Professional Experience

Senior Software Engineer, *Naseej* ☐
09/2023 – present | Cairo (remote)
- Authored & maintained an open-source testing package, reducing team effort & time by [30-50%] in unit & integration testing.
- Enhanced legacy framework with API-first features (OpenAPI schema generation) eliminates manual schema writing & streamlines communication.
- Established development & coding conventions, enhancing code quality, collaboration, and team efficiency.

Software Engineer, *Axentor*
07/2021 – 09/2023 | Cairo (hybrid)
- Led the adoption of unit testing practices, ensuring seamless maintenance.
- Designed complex financial reports using SQL, Frappe, and JS.
- Implemented a replenishment solution for the inventory and supply chain industries.
- Built an ERPNext integration with Egypt Tax Authority using Pydantic

Software Engineer, *Effective Value Solutions*
03/2019 – 07/2020 | Cairo (on-site)
- Spearheaded a research and development initiative to explore the integration possibilities of Apache Superset and ERPnext.

Python/Django Developer Intern, *Almobarmig*
09/2018 – 12/2018 | Alexandria (on-site)
- Developed a customizable e-commerce Django admin panel, enabling effortless product management and driving business profits.

Content Creation

A Weekly Study Notes ☐
Regularly post study notes covering various technologies, databases, advanced Python, and other relevant subjects.

Data structures and Algorithms,
IEEE RAS 2021 - study group ☐
Conducted college workshop on Algorithms & Data Structures, 2021. Studying Data structures and Algorithms in Python Book