

Mohammed Essam

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CAREER OBJECTIVE

Product-focused Full Stack Engineer with a strong background in Distributed Systems and Operational Automation. Proven track record of architecting and shipping commercial-grade software while completing a CS degree. Expertise in Golang, Python (FastAPI), and Svelte, with a focus on building high-performance, local-first architectures and scalable backend services.

EXPERIENCE

Independent Developer

[Akamaar Dev](#) | May 2025 – Present

Building [TimePerch](#), an advanced time-tracking and productivity desktop application as evolution of enterprise clocking system work.

- Developing cross-platform desktop application using **Tauri + JavaScript/TypeScript + Svelte 5**
- Implementing user-centered design principles for intuitive workflow and enterprise use cases
- Designing scalable backend architecture with **Golang** to handle concurrent operations
- Building features with focus on embeddability and extensibility for various environments

Software Engineer

Tlnted, Obour City, Egypt

Aug 2023 – May 2025

Intelligent Engineer Dispatch System

Developed an intelligent dispatch system using **Svelte 5** that helps non-technical operators identify job requirements and dispatch the right engineer with appropriate skills to customer sites for a UK service provider.

Holiday Management Portal

Built interactive leave scheduling platform with **Svelte 5 + FastAPI** enabling managers and employees to coordinate time-off requests, view team availability, and maintain resource planning.

Fleet Reporting App

Created real-time vehicle tracking and performance analytics system using **Streamlit**, processing GPS telemetry data to monitor driver behavior, and reduce operational costs across a six-vehicle fleet.

EDUCATION

B.Sc. in Computer Science

Faculty of Computers and Artificial Intelligence, Cairo University

Sep 2022 – July 2026

PROJECTS

Infrawatcher: Automated infrastructure monitoring and alerting platform built with FastAPI and SvelteKit. Implements customizable alerting rules and real-time dashboards to ensure system reliability.

Bee2Bee: A peer-to-peer network that allows you to easily deploy, route, and access AI models across any infrastructure (Local, Cloud, Colab) without complex networking configuration.

SKILLS

Programming Languages

Primary Languages JavaScript, TypeScript, Svelte, Python, Golang

Additional Languages Rust, Java, C++, C

Frameworks & Tools

SvelteKit, Flask, FastAPI, Pandas

Databases & Cloud

PostgreSQL, SQLServer, Supabase

Development Tools

Docker, Git, Linux, CI/CD (Using Coolify)

LANGUAGES

- Arabic - Native
 - English - Professional Working Proficiency
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