

# 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.

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## 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.

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## EDUCATION

### B.Sc. in Computer Science

Faculty of Computers and Artificial Intelligence, Cairo University

Sep 2022 – July 2026

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## 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.

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## 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)

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## LANGUAGES

- Arabic - Native
- English - Professional Working Proficiency