

# Amr Hassan

Cairo, Egypt | P: (+20) 01004012260 | [amr.hassan.abdullah@gmail.com](mailto:amr.hassan.abdullah@gmail.com) | [linkedin.com/in/amr-hassan-abdullah](https://www.linkedin.com/in/amr-hassan-abdullah)  
[github.com/amrHassanAbdallah](https://github.com/amrHassanAbdallah) | <https://amr-hassan.xyz>

## EXPERIENCE

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### SWVL

Senior Software Engineer

Jan 2022 – Present

- Supervise a team of 7 engineers.
- Partnered with business teams and operators to ensure problems were addressed and corrected.
- Decreased the number of fetched resources by  $\sim 0.001x$  for the TaaS solution which in return reduced the execution time & the bigQuery's bill.
- Enhanced the docs for system designs as well as planning system improvements.

### Udacity

Session Lead

Dec 2021 – Present

- Made FAQ documents which reduced students' questions & boosted the graduation rate.
- Built relationships with over 50 students and ensured all students felt attended to with personalized feedback, class discussions, and encouragement.
- Provide informative presentations to students regarding different areas of study and ensure that all students fully

### Magalix

Software Engineer

Sep 2019 – Dec 2021

- Reduced time-series data serving from 600ms (90th percentile) to 100ms (90th percentile) and expanded write throughput.
- Extended recommendations analysis beyond the web application by building an app that integrates with Zapier, Slack, and Jira webhooks and identified a major bottleneck in sending messages for unavailable webhooks and solved it by using circuit breakers, which amplified the ingestion rate by 10x.
- Researched a way to manage workflows in the system, and recommended Argo, which strengthened the extensibility and visibility of the system by 2x factor.
- Established high-quality user requirements and functional requirements based on identified business needs over 3 services.
- Simplified connected clusters tracking by recording only the last seen time when needed, which resulted in less traffic across the network to be 2 requests per hour instead of 60 per hour for each cluster.
- Collaborated closely with other roles within the SDLC (e.g. project management, DevOps, and QA)
- Received exceptional achievement award for consistently fixing and stabilizing the dev environment.

### Freelancer

Full-Stack Web Developer

Jan 2016 – May 2020

- Architected and implemented 6+ projects adapting Agile Methodology
- Developed 16+ customized script solutions utilizing many skills such as PHP, Javascript, and Golang.
- Achieved an average rating of 5/5 over Fiverr and Upwork.

### Udacity

Project Reviewer

May 2018 – Oct 2019

- Taught and explained software engineering practices including coding standards, code reviews, source control management, build processes, and testing which resulted in a lower project resubmission rate by 1.2x.
- Coached and guided over 130 Nanodegrees students to pass their projects.

### Teknowl

Software Engineer

Nov 2017 – Nov 2018

- Refined model relations rendering by implementing a content-type HAL package that abstracts the rendering logic between different models that allowed joining data with simple keywords, which simplified adding newer relations and saved our time by 500%.
- Integrated Elasticsearch and designed its mapping plus data sync, which bumped our search capabilities by 3x and also added search based on user roles.

- Optimized MySQL queries by reducing the number of executing queries on multiple pages by 27%.
- Promoted productivity and quality standards by sharing tech resources and reflecting on them with the team.
- Presented and demonstrated solutions by developing documentation, flowcharts, layouts, diagrams, and charts.
- Shaped and maintained coding standards for BE engineers department of 5 people.

## EDUCATION

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**Helwan University – Cairo, Egypt**

Sep 2019

Bachelor of software engineering, Computer Science.

## ADDITIONAL

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**Certifications and Training:** Mobile Web Specialist (Udacity), Secure Software Design Specialization (Coursera), Front End Web Development Advanced (Udacity), Cloud Developer (Udacity)

**Languages:** English (Professional), Arabic (Native)