

PAUL ASHRAF

Software Engineer

📅 September 1998
📍 Nasr City, Cairo

👤 Military Exempted
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EXPERIENCE

Zammit – Lead Software Engineer

📅 March 2022 – Present 📍 Cairo, Egypt 🌐 zammit.shop

- Managed a team of 5 Software Engineers, conducting daily stand-ups, 1-on-1's, sprint planning sessions and a weekly book club
- Optimised our **Kubernetes** cluster and other infrastructure resources saving more than 40% of our total infrastructure cost (GCP)
- Architected our new store front by rebuilding our FE from scratch (**Next**/serverless) & refactoring our BE improving our P50 latency by up to **x3 - x15** leading to a **65%** increase in GMV

Zammit – Software Engineer

📅 August 2021 – March 2022 📍 Cairo, Egypt 🌐 zammit.shop

- Optimised our complex e-commerce rails backend allowing it to support more than 2000 shop & millions of clients
- Rebuilt modules from our merchant dashboard to a modern Vue SPA which decreased response times by up to **400%**
- Mentored Zammit's interns insuring the delivery of high business value & providing a positive learning experience

Ruby on Rails

Postgres

Redis

Kubernetes

GCP

Vue

React

Next

Crowd Analyzer – Software Engineer

📅 March – August 2021 📍 Cairo, Egypt 🌐 crowdanalyzer.com

- Worked on maintaining, developing, & deploying new features, providing the users with key analytical insights
- Optimised one of the key modules in the system performance by more than **300%**
- Converted some of the engine's core functionality from server-side to client-side, cutting significant costs

React

Redux + Redux Saga

Coursera – Web Development Instructor

📅 August 2020 – January 2021 📍 Cairo, Egypt 🌐 paul-ashraf

- Authoring web development courses on the Coursera platform
- Over 5000 registered learners

Node

React

Next

University of Porto – Research Assistant

📅 July – September 2019 📍 Porto, Portugal 🌐 inesctec.pt

- Researched cutting edge topics in the field of power systems like *virtual power plants & smart grids*
- Modeled complex power systems using **Python & GAMS**
- Implemented an **MIP solver** to optimise the model
- Published multiple papers with our findings (EEEIC 2020 & IEEE IAS)

Python

GAMS

TECHNICAL SKILLS

📄 Software Engineering

- Experience in designing salable & resilient systems utilising design patterns where appropriate
- Experience in backend development using **Node, Ruby on Rails & Java**
- Experience in building CSR & SSR frontends using **React & Vue (JS + TS)**
- Experience in working with **SQL & NoSQL** databases & caches like **Redis**
- Experience in utilising messaging queues like **RabbitMQ**.
- Experience in mobile app development using **React Native (CLI/expo)**.

☰ Dev Ops

- Experience in containerizing apps with **Docker**
- Experience in building & managing systems using **Kubernetes**
- Experience in **k8s** tooling & modules such as **Helm, ArgoCD, Prometheus, Grafana, cert-manager** & load balancers like **nginx**
- Experience with **AWS & GCP** employing their various services to decrease cost & increase system availability

📊 Data Science

- Experience in Machine Learning & Deep Learning using **TensorFlow & Scikit-learn**
- Experience in data engineering using **matplotlib, seaborn & pandas**

EDUCATION

Computer Science Engineering
BSc

German University in Cairo

📅 2016 – 2021 🏆 Excellent with Honors

Bachelor Project

Automatic Emergency Braking Detection using EEG Signals

📅 2020 🏆 A+

Constructed an ML model to detect emergency braking events from live EEG signals.

IGCSE

New Ramses College

📅 2012 – 2016 🏆 100% (8 OLs + 3 ALs)