PAUL ASHRAF
Senior Software Engineer

- September 1998
- Nasr City, Cairo
- Military Exempted
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EXPERIENCE

Procore – **Senior Software Engineer**

📅 February 2024 – Present   📍 Cairo, Egypt   🌐 procore.com

- Working on the **largest Rails codebase in the world**, supporting millions of active users per month
- Collaborating with cross-functional teams to implement drastic performance changes, enhancing system efficiency and user experience
- Utilizing Rails and React to build and maintain scalable applications
- Contributing to the company's mission to improve the lives of everyone in construction through innovative software solutions.

`Rails` `Postgres` `React`

Zammit – **Lead Software Engineer**

📅 March 2022 – February 2024   📍 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

`Rails` `Postgres` `Redis` `Kubernetes` `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 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

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)