

PAUL ASHRAF

Software Engineer

📅 September 1998
📍 Nasr City, Cairo

👤 Military Exempted
🌐 paulashraf.com

✉ paulashraf14@gmail.com
🌐 paulashraf

☎ +201229117764



EXPERIENCE

Zammit – Lead Software Engineer

- 📅 March 2022 – Present 📍 Cairo, Egypt
- 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 (cache layer/DB queries refactors) improving our P50 latency by up to **x3 - x15**

Zammit – Software Engineer

- 📅 August 2021 – March 2022 📍 Cairo, Egypt
- 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 Kubernetes GCP Vue React

Crowd Analyzer – Software Engineer

- 📅 March 2021 – August 2021 📍 Cairo, Egypt
- 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

Callvita – Software Engineer

- 📅 November 2020 – March 2021 📍 Cairo, Egypt
- Maintaining & adding features to a large React Native (CLI) mobile application with a Node backend & a PostgreSQL database

Coursera – Web Development Instructor

- 📅 August 2020 – January 2021 📍 Cairo, Egypt
- Authoring web development courses on the Coursera platform
 - Over 5000 registered learners

INESC, University of Porto – Research Assistant

- 📅 July – September 2019 📍 Porto, Portugal
- 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)