

Mosab Ibrahim

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Personal Profile

Production Engineer at Meta (formerly Facebook). Previously Senior Site Reliability Engineer (SRE) at Twitter & Gocardless. Before that Senior Software Engineer (Infra, Product, Tech Lead) at Levelset, Wuzzuf, and others. Passionate about software development, relational database management systems, distributed systems, systems programming, linux, and open source/free software.

Work Experience

Meta / Formerly Facebook

London, United Kingdom

Production Engineer

Mar 2022 - Present

- Production Engineering combines software, systems, and infra engineering. Production Engineers are known for their ability to work on a wide variety of projects across multiple teams. Whether writing code or debugging hard problems in production, our team makes sure that Meta apps and services are reliable and scalable. Production Engineers help the over 3.6 billion monthly users around the world who depend on Meta products like Instagram, WhatsApp, Oculus and Videos as well as backend services like Storage, Cache and Network.
- A member of the Backup and Restore team at Meta, the team responsible for providing backup and restore capabilities for all the important datasets that come from different Datastores (MySQL, ZippyDB, etc) across all our family of services and apps (Facebook, Messenger, Instagram, and WhatsApp).
- My main focus is in the recovery area, Leading and implementing projects that make sure we can restore our databases in different (distaster and non-distaster) scenarios and at different scales.
- **Technical Skills:** Python, Rust, Linux, MySQL, ZippyDB, Mercurial, Distributed Systems

Twitter

London, United Kingdom

Senior Site Reliability Engineer

May 2020 - Mar 2022

- Improved the availability, scalability, performance and reliability of Twitter's production services.
- Worked as part of the SRE team providing Twitter teams with Databases infrastructure(MySQL, PostgreSQL, Vertica, Druid).
- Designed and built a service that automates and massively reduces toil, providing a 98% drop in the time to provision resources, which works out to >100k saving in person hours (>139 person months, >11.5 person years) in the next few years.
- **Technical Skills:** Python, Flask, SQLAlchemy, Linux, MySQL, PostgreSQL, Vertica, Druid, Git

GoCardless

London, United Kingdom

Site Reliability Engineer

Mar 2019 - Mar 2020

- Protect, provide for, and progress the software and systems that make up the GoCardless product, supporting product teams in the deployment of high quality services.
- **Technical Skills:** Golang, PostgreSQL, GCP, Kubernetes, Terraform, Helm, Elastic Search, Kibana, Linux, Docker, Git, Prometheus, Grafana, Thanos

WeQ Global Tech GmbH

Berlin - Germany

Software Engineer

Nov 2017 - Mar 2019

- Developed, deployed & maintained customer facing microservices handling over a billion requests/day.
- Created and maintained infrastructure as code for new and legacy systems/microservices.
- **Technical Skills:** PHP, Java, Spring Boot, Kafka, AWS, Docker, Docker Swarm, Terraform, Jenkins, MySQL, MongoDB, Prometheus, Grafana

Levelset (formerly zlabs)

Cairo - Egypt

Sr. Software & Platform Engineer

Mar 2013 - Oct 2017

- Lead a team designing & developing an internal platform for data verification and research process.
- Migrated the levelset.com platform to a microservices based architecture.
- Designed & built the API that ingests 100K+ transactions every week from enterprise customers' systems.
- Optimised time to release by orders of magnitudes (2 days to 5 minutes), and improved uptime (99.9% from several outages a week).
- **Technical Skills:** PHP, Symfony, Linux, AWS, RabbitMQ, Soap API, Rest API, Jenkins, MySQL, Git, Nagios, New Relic

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Handmade Studios

Cairo - Egypt

Senior Software Engineer

Jun 2012 - Feb 2013

- Designed, developed & maintained an editorial website for entrepreneurs and startups.
- **Technical Skills:** PHP, Symfony, Linux, AWS, Git

Inmobly

Senior Software Engineer

- Designed, developed & deployed API backends for two mobile apps that recorded and streamed videos.
- Technical Skills:** Python, Flask, SQLAlchemy, Rest, AWS, SVN

Cairo - Egypt

Nov 2011 - May 2012

Bluw i LTD

Technical Consultant

- Implemented a social network for entrepreneurs to raise funds from angel investors.
- Technical Skills:** PHP, Drupal, AWS, Git

Cairo - Egypt

Jun 2011 - Sep 2011

Wuzzuf.net

Lead Software Engineer

- Designed the architecture for Wuzzuf.net
- Lead the team in implementing wuzzuf.net (Egypt's leading hiring platform).
- Collaborated closely with the company's CTO.
- Designed, created, monitored and maintained the infrastructure of wuzzuf.net.
- Technical Skills:** PHP, CakePHP, Doctrine ORM, AWS, MySQL Mercurial

Cairo - Egypt

Apr 2010 - Apr 2011

Arabia Inform

Senior Software Engineer

- Designed and built an archiving solution for media with an advanced search index and media encoding features.
- Implemented and deployed an ads management solution for the company's websites network.
- Collaborated with other teams on infra upgrade projects and migrations.
- Technical Skills:** PHP, Drupal, OpenX, AWS, Git

Cairo - Egypt

Nov 2009 - Apr 2010

Citex Software

Software Engineer

- Implemented a social network for entrepreneurs to raise funds from angel investors.
- Technical Skills:** PHP, Drupal, AWS, Git, Nagios

Cairo - Egypt

Oct 2008 - Nov 2009

Media International

PHP Developer

- Designed, developed, deployed and maintained various PHP projects for customer.
- Designed and executed data migration projects for some of our clients from legacy systems to solutions developed by our team.
- Surveyed and reviewed tools for internal use by our team.
- Installed and configured load balancing Linux web servers and implemented MySQL replication and file synchronization solutions.
- Monitored the servers, resolved production issues, and maintained service uptime.
- Technical Skills:** PHP, Drupal, Joomla, Moodle, Linux, MySQL, Nagios

Cairo - Egypt

Jan 2007 - Sep 2009

20at.com

PHP Developer

- Developed a new content management solution (CMS) from scratch to meet the editorial and business requirements
- Designed and executed data migration plan from the legacy version of the website to the newly developed system.
- Maintained the online website codebase and applied bug and security fixes.
- Developed new features and sub-portals in reaction to business needs and special current events (e.g. world cup 2006).
- Technical Skills:** PHP, Linux, MySQL, Dedicated Linux Hosting, S/FTP

Cairo - Egypt

Jun 2004 - Dec 2006

Open Source Projects

Toggl Target

- CLI working hours planning tool.
- Featured in Toggl API documentation
- Technical Skills:** Python, Requests.

Grid Status Now

- Egypt's power grid load status as an open source web service.
- Technical Skills:** PHP, Symfony.

Power Close

- A browser add-on to close tabs based on domain or keyword.
- Technical Skills:** Javascript, Firefox, Chrome.

Other Projects

- Created and contributed to other projects that you can find on my website or github profile.

Education

University of Cairo

Cairo, Egypt

Bachelors of Computer Engineering [Dropped Out]

Fall 2003 - Summer 2007

- Moved between computer & civil engineering, architecture, and commerce, before dropping out due to family related reasons.

Languages

English Professional proficiency

Arabic Native proficiency