

Tarek Khaled

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Experience

• **Workday**

Dublin, Ireland

Senior Software Engineer

April 2025 - Present

- Part of Big Data Services team who is responsible for maintaining Hadoop infrastructure as a backend mainly for [Prism Analytics](#).
- Led Adding Secondary Standby NameNode Hadoop project from design through production rollout, adding NameNode HA resilience across BDS clusters.
- Contributed to BDS Oncall Agent, an AI-driven oncall automation agent (LLM + MCPs) that ingests Grafana alerts to triage and write RCAs for incidents automatically, reducing on-call toil.

Software Engineer

December 2022 - April 2025

- Drove (Cloud Platform 1) CP1 → CP2 Public Cloud Migration across 10+ production environments; authored scripts to auto-generate migration configs, eliminating manual effort and human error while migrating betabytes of customer data across multiple AWS S3 buckets.
- Improved Hadoop overvability by designing and implementing Hadoop client metrics emission, providing first-class observability for BDS storage operations.
- Designed and built core endpoints of BDS Migration Service to migrate customers betabytes of data from private datacenters to public cloud across AWS and GCP environments.
- Reduced S3 API calls by at least 50% while cloning tenants to another Hadoop cluster in AWS.

• **Amazon Web Services (AWS)**

Dublin, Ireland

Software Engineer

September 2020 - November 2022

- Part of [CloudWatch Metrics](#) which is used to monitor systems health based on customer defined metrics.
- Operating a critical service, serving billions of request per second.
- Developing code that meets critical requirements on scalability, security and maintainability.
- Identifying areas of improvements in existing tools and processes and strive to make them better.
- Implemented a solution that reduced the cross region calls invocation time up to 30% of the Lambda functions that copies metric names to the ElasticSearch indexes.
- Implemented functional tests for MetricNameIndexUpdater microservice so the end-to-end scenario for this microservice can be tested without needing to deploy to PREPROD environment.

• **Webalo**

Alexandria, Egypt

Software Engineer

May 2019 - August 2020

- [Webalo](#) provides a platform for no-code mobilization of heterogeneous enterprise data sources.
- Created the login servlet of [Webalo StartNow!](#) and integrated [HubSpot](#) APIs with the system to create reports and dashboards which are used by the marketing team.
- Enhanced the performance of the User Agent System by migrating it from using canvases to render its components to use HTML elements using **Angular** and **Java**.
- Designed and implemented the reset password functionality for the User Agent System.
- Utilizing **Selenium** for end-to-end testing.
- Designed and implemented a feature to capture screenshots of the screen when Selenium End to End tests fails.
- Maintaining system build and testing through **Jenkins**.

Technical Skills

- Programming Languages: Java (Preferred).
- Good knowledge with: Hadoop, Kubernetes

Education

• **Alexandria University, Faculty of Engineering**

Alexandria, Egypt

Bachelor of Science, Computer and Systems Engineering.

2011 - 2016

Honors and Awards

- Ranked **5th** in the coding challenge of **Facebook Workshop Event** that took place in Egypt 2019.
- Qualified to Round 1 in **Google Code Jam** 2013 & 2019.
- Qualified to Round 1 in **Facebook Hacker Cup** 2013 & 2015.
- Honorable Mention in **ACM Alexandria Collegiate Programming Contest**, Egypt 2013 & 2014.