

Khaled Awad

Software Engineer

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Tokyo, Japan

Professional Experience

• Software Engineer | DEC 2021 - Current

PayPay corporation, Tokyo, Japan

- User module team:
 - Optimized core user module services, ensuring seamless performance for over 65 million active users.
 - Engineered an advanced user blockage tool that adjusted user blockage times to zero streamlining the unblocking process and reducing average handling time by 30% for the customer support team.
 - Achieved a 75% reduction in user event consumer failures by architecting and deploying a robust fallback and retry mechanism, significantly boosting system reliability.
- Payout team:
 - Developed a brand-new bank transfer system for over 66 million users.
 - Managed periodic payouts for 3.6 million merchants, including daily payouts and transfer reports.
 - Ensured continuity of service through the implementation of disaster recovery for daily payouts to 600,000 users.
 - Achieved integration with merchant systems to process over 100 million JPY worth of transactions.
 - Achieving improvements in new members efficiency and productivity through introducing development automation scripts, which streamline the onboarding process for new services.
- Utilized a range of technologies, including microservices, Java, Spring, Kotlin, Junit, DynamoDB, Aurora, Kafka, ArgoCD, Kibana, Jenkins and NewRelic

• Cloud Engineer | APR 2021 – DEC 2021

Rackspace Technology, Alexandria, Egypt

- **AWS Certified Solution Architect - AWS Certified Developer**
- Created over 20 internal automation scripts for a variety of services, including cloud instances, Kubernetes, security policies, and monitoring tools configuration, while working with a leading cloud provider.
- Contributed to the successful migration of \$111 million worth of corporate client infrastructure to the cloud using CF/Terraform to design reliable, available, and scalable systems across various regions.
- Wrote automation scripts for Amazon Web Services (AWS) services such as EC2, ECS, EKS

• Software Engineer | AUG 2019 - APR 2021

eSpace, Alexandria, Egypt

- Launched several successful pilot projects with a user base of 168,000 registered users and 225,000 monthly transactions, utilizing backend Rails, frontend ReactJS, and PostgreSQL for the database.
- Enabled a client ministry to rise 7 ranks to the 7th best telework country in 2024 by working on the leading governmental ministry project related to freelancing contract regulations targeting all the country residents.
- Achieving a 20% increase in the performance of live projects and a 70% decrease in error rates using monitoring tools such as New Relic and Sentry.

- **Graduate RA | NOV 2020 - FEB 2022**
Alexandria University, Alexandria, Egypt

- Developed a blockchain-based solution for storing Islamic Hadiths, with multiple institutions serving as validators.
- Published a paper on this work in the "Computers" journal of the MDPI publishing group.

Skill set

- **Programming Languages:**
Ruby, Python, Java, Kotlin, C#, JavaScript
- **Frameworks:**
Rails, Spring boot, ReactJS, NodeJS
- **Databases:**
PostgreSQL, DynamoDB, MySQL
- **Infrastructure as a Code tools:**
Terraform, CloudFormation, Runway
- **Other tools:**
Jenkins, Kibana, New Relic, Unity, Git,

Education

Bachelor of Science in Computer and Communications Engineering| 2019
Faculty of Engineering, Alexandria University, Egypt

Publications

A SECURE BLOCKCHAIN FRAMEWORK FOR STORING HISTORICAL TEXT: A CASE STUDY OF THE HOLY HADITH
COMPUTERS 2022-03-14

DOI: [10.3390/computers11030042](https://doi.org/10.3390/computers11030042)

A permissioned blockchain stores Prophet Mohamed PBUP Hadiths in a private distributed ledger using Islamic organizations as main nodes

Keywords: Blockchain, Hyperledger Fabric, NodeJS

BUILDING YOUR KINGDOM: IMITATION LEARNING FOR A CUSTOM GAMEPLAY

IEMCON 2019 - 17 OCTOBER 2019

DOI: [10.1109/IEMCON.2019.8936134](https://doi.org/10.1109/IEMCON.2019.8936134)

Building a personalized gaming experience with a reinforcement learning brain on the top of Imitation Learning brain

Keywords: ML, Imitation Learning Reinforcement Learning

Something I am proud of

MEMES MESSENGER CHATBOT – [GitHub link](#)

Facebook Messenger chatbot that uses Imgur API and send your daily dose of memes

Keywords: NodeJS, DialogFlow