Amr Hassan

Cairo, Egypt | ☎ +201004012260 | @ amr.hassan.abdullah@gmail.com | 🔗 https://amr-hassan.xyz | Github: amrHassanAbdallah

Experience

BitBang
Senior Software Engineer
August 2024 - Present
Remote

- Oversaw the entire backend squad for the Amplifidor project, managing execution, priorities, and scalability.
- Planned and led technical debt reduction, improving system performance and maintainability.
- Transitioned core systems to microservices, enabling 40% faster feature deployment.
- Created a shared utilities package used across 5+ services.
- Strengthened monitoring by integrating Sentry, Grafana, and Prometheus and ELK, expediting issue resolution.
- Automated CI/CD testing and deployments, increasing code quality and release speed.
- Boosted system reliability by 30% through TDD adoption, developing 150+ unit tests.

Alraedah
Senior Software Engineer
Jun 2023 – Dec 2023
Dubai, UAE

- Increased development speed by 20% and improved maintainability by migrating to configuration-based integrations.
- Implemented an Apache Airflow system to aggregate data from multiple sources for centralized customer follow-up, improving data accessibility.
- Optimized and expedited multiple environment deployments through the implementation of efficient CI/CD pipelines, leveraging GitHub deployments for seamless and rapid software releases.
- Upheld code quality standards, leading detailed code reviews.

SWVL
Senior Software Engineer
Jan 2022 – Dec 2022
Cairo, Egypt

- Reduced resource fetches for the TaaS solution by 127%, resulting in faster execution time and cost savings
- Architected and built a robust PDF generation pipeline capable of handling ~7K bookings/hour
- Actively reviewing PRs and setting coding quality standards
- Consolidated and automated duplicated TaaS apps into our k8s cluster for improved reliability and reduced workload
- Elevated the stability and visibility of B2B k8s environments with monitoring dashboards, playbooks, and Upgraded deployment scripts
- Facilitating technical and business discussions to understand customer needs and drive system improvements

Weaveworks (Magalix)
Software Engineer
Sep 2019 – Dec 2021
Cairo, Egypt

- Accelerated time-series data serving, resulting in an 83% faster response time from 600ms to 100ms, and a lift in write throughput.
- Built a Zapier, Slack, and Jira webhook-integrated app to broaden recommendations analysis, identified a bottleneck in messaging for unavailable webhooks, and implemented circuit breakers, resulting in a 10x boost in the ingestion rate.
- Researched and proposed Argo, enhancing system extensibility and visibility by 200%.
- Spearheaded the creation of high-quality user and functional requirements for 3 services, based on identified business needs.
- Streamlined connected clusters tracking by only recording the last seen time, reducing network traffic by 96% from 60 requests per hour to 2 requests per hour per cluster.
- Awarded for exceptional achievement in consistently fixing and stabilizing the development environment.
- Developed memory and CPU optimization advisor and fixed many LSIs, documenting their playbooks.
- Proposed new ideas for advisors to improve workload stability.

Teknowl
Software Engineer
Nov 2017 – Nov 2018
Cairo, Egypt

- Developed a HAL-based content rendering package, simplifying data model interactions and enabling seamless relation mapping with keyword-based queries, reducing development time by 500%.
- Integrated and optimized Elasticsearch, refining data mapping and synchronization to enhance search performance threefold, while introducing role-based search functionality.
- Increased database efficiency by reducing MySQL query execution by 27%, improving application responsiveness and scalability.
- Elevated team productivity by curating and sharing technical resources, fostering best practices, and facilitating knowledge exchange.
- Strengthened technical communication by creating comprehensive documentation, process flowcharts, and system diagrams, ensuring clarity in design and execution.

Education

Helwan University
Sep 2019
Bachelor of Software Engineering, Computer Science.

Skills

Golang, Python, TypeScript, NodeJs, PHP, MySQL, Postgres, MongoDB, Redis, BigTable, InfluxDB, AWS (SQS, S3, Lambda, ElasticBeanStalk), Google Cloud (PubSub, Cloud Functions), Docker, Kubernetes, Helm, ArgoCD, Kafka, RabbitMQ, Jenkins, GitHub Actions, CircleCI, HTML, CSS, JavaScript, Laravel, Express.js, Sentry, DataDog, Prometheus, Alert Manager, Terraform, Git, Zapier, Elasticsearch