




Amr Hassan

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Experience

BitBang
Senior Software Engineer
Remote
August 2024 - Present

- Managed technical debt by identifying key areas for improvement, prioritizing initiatives, and driving implementation to enhance system performance and maintainability.
- Led the migration of a significant portion of a monolithic service to a new microservice architecture, ensuring scalability and improved fault isolation.
- Launched and managed a core package of shared utilities that aligned coding practices among 10+ services, resulting in more cohesive code reviews and reducing onboarding time for new developers by 15%.
- Built and maintained a core package containing shared utilities, enabling consistency and reducing service redundancy.
- Integrated Sentry and APM tools with Grafana and Prometheus to enhance monitoring and enable faster issue resolution across all environments.
- Optimized Elasticsearch syncs by shifting from full to delta syncs, improving processing speed and scalability.
- Collaborated with cross-functional teams to align on priorities and deliver complex projects like profile switching and account redesign as well as programs within sprint timelines.
- Automated CI/CD testing and added annotated deployments, boosting code quality and accelerating release cycles.
- Enhanced code coverage and system reliability by adopting TDD for critical components and writing comprehensive unit tests.

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

- Actively engaged in code reviews, debugging, and investigation to maintain high code quality.
- Optimized third-party system integration through Kong, reducing developer time by 20% and enhancing overall efficiency.
- Implemented Apache Airflow system for centralized customer follow-up,
- Engineered with GitHub Actions, enhancing release tracking and deployment accuracy.

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

- Designed and implemented an event-driven Trip Summary PDF Generation pipeline, improving operational efficiency.
- Automated network generation and bus allocation processes, optimizing resource utilization with Kubernetes.
- Played a key role in migrating monolithic applications to microservices, enhancing scalability and maintainability.
- Organised Kubernetes clusters for Environment Management and Release Rollouts, resolving ownership and monitoring issues.

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

- Built a Zapier, Slack, and Jira webhook-integrated app to broaden recommendations analysis and Introduced circuit breakers, resulting in a 10x boost in ingestion rate.
- Accelerated time-series data serving resulting in 83% faster response time and lift in write throughput.
- Reduced network traffic by 96% by streamlining connected cluster tracking processes.
- Led the Node Advisor project, optimizing cluster recommendations within a Golang codebase.

Freelancer
Full-Stack Web Developer
Cairo, Egypt
Jan 2016 – May 2020

- Completed 16+ custom software projects, achieving an average rating of 5/5 on freelancing platforms.
- Delivered 6+ large-scale projects using Agile methodology, ensuring timely delivery and client satisfaction.

Teknowl
Software Engineer
Cairo, Egypt
Nov 2017 – Nov 2018

- Transitioned Legal Gate from a monolith Laravel application to a microservices architecture.
- Developed an API Gateway using Node.js and Express.js, incorporating a Laravel package for HAL content rendering and RabbitMQ for asynchronous communication.
- Enhanced search performance by 25% through Elasticsearch integration for advanced legal document retrieval.

Education

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

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