






Amr Hassan

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Experience

Alraedah

Senior Software Engineer

Jun 2023 – Dec 2023

Dubai, UAE

- 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, leveraging Python, Postgres, and Golang for seamless logic handling and consistent user notifications.
- Developed centralized notification service with Kafka for efficient message consumption, enabling seamless integration with vendors and maintaining message idempotency.
- Led the creation of a core package repository to standardize the codebase, improving service development and maintenance efficiency.
- Engineered CI/CD pipeline using Github Actions for automated release tracking and deployment, enhancing visibility and deployment accuracy on Kubernetes environments.

SWVL

Senior Software Engineer

Jan 2022 – Dec 2022

Cairo, Egypt

- Orchestrated Environment Management and Release Rollouts for the TaaS project, enhancing Kubernetes cluster efficiency by resolving ownership, health monitoring, and version tracking issues.
- Designed and implemented a Trip Summary PDF Generation pipeline for automated trip invoice creation within the legacy codebase, utilizing event-driven architecture and Node.js for high-volume PDF generation and operational efficiency.
- Directed the Network Generation Automation and Standardization project to automate network creation and bus allocation, optimizing operations by migrating to Kubernetes, adding health probes, and optimizing BigQuery queries.
- Drove the Legacy API Gateway Refactor project by transitioning to TypeScript for enhanced functionality, and introducing unit testing for reliability and scalability.

Weaveworks (Magalix)

Software Engineer

Sep 2019 – Dec 2021

Cairo, Egypt

- Managed the Node Advisor project, optimizing cluster node recommendations in a legacy Golang codebase. Resolved bugs, adapted to cloud provider changes, and introduced features for improved resource balance and client satisfaction.
- Led the Keбенotifier project, enhancing recommendation dashboards with configurable alert systems. Utilized Go, Chi framework, MongoDB, and Kafka for flexible alerts, optimizing event processing and system reliability.
- Spearheaded the Recommendation Management Service project for efficient system recommendations handling. Leveraged Golang, MongoDB, and Kafka for data insights, ensuring reliable data ingestion for informed decision-making.
- Oversaw the Time Series Data (TSD) Service migration to BigTable, enhancing response times and scalability. Implemented Apache Airflow for seamless data transition, enhancing performance and data consistency.
- Implemented the Real-time Cluster Connection Tracking Optimization project for efficient status tracking using Golang and Redis. Improved accuracy, reduced database load, and enhanced scalability with real-time monitoring and load management.
- Orchestrated the OPA Integration for Dynamic Policy Enforcement project, efficiently enforcing custom policies using OPA. Optimized data transfer and policy scalability within user clusters, simplifying infrastructure management and enhancing system performance.

Teknowl

Software Engineer

Nov 2017 – Nov 2018

Cairo, Egypt

- Created a customizable WordPress theme, integrating JavaScript, HTML, and CSS for client-specific responsiveness and seamless WordPress integration.
- Transitioned Legal Gate from a monolith Laravel application to a microservices architecture to enhance scalability and maintenance efficiency.
- Developed an API Gateway using Node.js and Express.js, incorporated a Laravel package for HAL content rendering, and utilized RabbitMQ for asynchronous communication.
- Integrated Elasticsearch for advanced legal document search capabilities, ensuring a secure, scalable, and user-friendly platform with optimized performance and efficient 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