Amr Hassan

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EXPERIENCE

Alraedah

Senior Software Engineer   Jun 2023 – Present
- Collaborate with a team of 4 talented engineers, contributing to the delivery of innovative and efficient solutions.
- Pioneered a groundbreaking shift from code-based to configuration-based integrations, streamlining development and amplifying maintainability.

Technology stack: Golang, Python, Redis, Kafka, vault, Kubernetes, Mysql, Postgres, Helm, ArgoCD, Github actions

SWVL

Senior Software Engineer   Jan 2022 – Dec 2022
- Led a team of 7 engineers to deliver efficient and high-quality solutions.
- Reduced resource fetches for TaaS by 127%, resulting in faster execution time and cost savings.
- Built a PDF generation pipeline capable of handling ~7K bookings/hour.
- Consolidated and automated TaaS apps into k8s cluster for improved reliability and reduced workload.
- Elevated stability and visibility of B2B k8s environments with monitoring dashboards and upgraded deployment scripts.
- Facilitated technical and business discussions to drive system improvements.

Technology stack: NodeJs, TypeScript, Python, Redis, Google BigQuery, AWS SQS, S3, Kubernetes, MongoDB, Postgres, AWS Lambda, Helm, Jenkins, Github actions

Udacity

Session Lead   Dec 2021 – Dec 2022
- Delivered engaging presentations and code examples, resulting in higher student understanding and adherence to course material
- Created comprehensive FAQ documents, decreasing student inquiries and increasing graduation rates
- Fostered strong relationships with over 50 students, providing tailored feedback and support to enhance their learning and success
- Instructed software engineering practices, including coding standards, code reviews, source control management, build processes, and testing

Technology stack: NodeJs, TypeScript, Postgres, Docker, AWS ElasticBeanStalk, AWS RDS, Github actions

Magalix

Software Engineer   Sep 2019 – Dec 2021
- Accelerated time-series data serving resulting in 83% faster response time and lift in write throughput.
- Built a Zapier, Slack, and Jira webhook-integrated app to broaden recommendations analysis and implemented circuit breakers, resulting in a 10x boost in ingestion rate.
- Researched and proposed Argo, enhancing system extensibility and visibility by 200%.
- Spearheaded the creation of high-quality requirements for 3 services based on business needs.
- Streamlined connected clusters tracking by only recording last seen time, reducing network traffic by 96%.
- Developed memory and CPU optimization advisor and fixed many LSIs, documenting their playbooks.
- Proposed new ideas for advisors to improve workload stability.

Technology stack: Golang, Redis, Google BigQuery, BigTable, MongoDB, Postgresql, InfluxDB, Kafka, Argo, Helm, Kubernetes, Docker, CircleCI, Google PubSub, Google Cloud Functions

Freelancer

Full-Stack Web Developer   Jan 2016 – May 2020
- Led architecture and implementation of 6+ projects utilizing Agile methodology.
- Developed 16+ customized script solutions using various programming languages, including PHP, Javascript, and Golang.
- Achieved an average rating of 5/5 on multiple freelancing plateforms.

Technology stack: Golang, Python, Nodejs, PHP, Laravel, MongoDB, Postgresql, Docker, CircleCI

Teknowl
Software Engineer   Nov 2017 – Nov 2018
- Implemented a content-type HAL package that abstracted rendering logic for different models, resulting in a 500% time savings.
- Enhanced search capabilities by 3x and added role-based search functionality by integrating and designing Elasticsearch mapping and data sync.
- Optimized MySQL queries on multiple pages by 27%,
- Promoted productivity and quality standards through resource sharing and team reflection.
- Communicated solutions effectively by developing documentation, flowcharts, layouts, diagrams, and charts

Technology stack: NodeJs, PHP, Laravel, Redis, RabbitMQ, MySQL, Postgresql, MongoDB, Elasticsearch, Jenkins

EDUCATION

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

ADDITIONAL

Certifications and Training: Mobile Web Specialist (Udacity), Secure Software Design Specialization (Coursera), Front End Web Development Advanced (Udacity), Cloud Developer (Udacity), Data Architect (Udacity)
Languages: English (Professional), Arabic (Native)