Amr Hassan

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EXPERIENCE

SWVL

Senior Software Engineer   Jan 2022 – Present
- Spearheading a team of 7 engineers to deliver high-quality and efficient solutions
- 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

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 – Present
- Delivered engaging presentations and provided code examples to students, resulting in higher understanding and adherence to course material.
- Created comprehensive FAQ documents, resulting in a decrease in student inquiries and an increase in graduation rates.
- Fostered strong relationships with over 50 students, providing tailored feedback, leading class discussions, and offering 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 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.

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

Teknowl

Software Engineer   Nov 2017 – Nov 2018
- Implemented a content-type HAL package that abstracted the rendering logic between different models, which allowed joining data with simple keywords and streamlined the process of adding new relations, resulting in a 500% time savings.

- Integrated Elasticsearch and designed its mapping and data sync, which significantly improved search capabilities by 3x, and added role-based search functionality.
- Optimized MySQL queries by reducing the number of executed queries on multiple pages by 27%.
- Promoted productivity and quality standards by sharing technical resources and encouraging team reflection on them.
- Communicated solutions effectively by developing documentation, flowcharts, layouts, diagrams, and charts.

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

Freelancer
Full-Stack Web Developer   Jan 2016 – May 2020
- Led the architecture and implementation of 6+ projects utilizing Agile Methodology.
- Developed 16+ customized script solutions utilizing a variety of programming languages such as PHP, Javascript, and Golang.
- Achieved an average rating of 5/5 on Fiverr and Upwork, demonstrating a consistent track record of delivering high-quality work to clients.

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

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)
Languages: English (Professional), Arabic (Native)