

Mohamed Gharabawy

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Summary

Senior Software Engineer with over 5 years of experience building scalable web applications and microservices. Strong expertise in backend development, performance optimization, and DevOps practices. Proven track record of delivering high-impact solutions across legal tech, accounting, and mobility sectors.

Experience

LexisNexis AI 🌐

Jan 2025 – Present

Senior Software Engineer

- Led complete versioning system refactoring, achieving 79% faster page loads through N+1 query elimination and migrating from YAML to JSON storage format
- Optimized database storage by implementing single-source audit system, eliminating 84GB of redundant data in development and approximately 100GB in production
- Established comprehensive test suite with RSpec, achieving high coverage across critical business logic and ensuring code reliability
- Containerized application using Docker and implemented Azure DevOps CI/CD pipeline with automated security scanning stage using Brakeman
- Implemented monitoring and observability solution using Coralogix, enabling proactive issue detection and system performance tracking

Qoyod 🌐

Jan 2023 – Dec 2024

Software Engineer II

- Built data pipeline transferring data from read-only replicas to PostgreSQL analytic database using Active Record
- Developed Ruby on Rails REST API service for microservices data synchronization using Pub/Sub pattern
- Engineered multi-tenant pricing plans and subscriptions feature, demonstrating complex backend system design
- Enhanced PDF security by extending WickedPdf gem for HTML sanitization
- Integrated Mixpanel analytics using Instrument and Observer design patterns
- Led performance optimization initiatives, significantly reducing system latency in critical accounting and reporting processes

Swvl 🌐

Jan 2021 – Dec 2022

Software Engineer

- Introduced driver module improving captain app journey and reducing system load, enhancing operational efficiency by 41%
- Built onboarding module that reduced activation time by 18% and operational cost by \$2,000/month
- Revamped in-ride experience in captain app flow, reducing captain walk-ins to operation offices by 20%
- Delivered features that reduced manual man-hours for B2B and SWVL SAAS platform
- Wrote clear, concise, and well-tested code providing at least 95% coverage

Swvl 🌐

Jan 2020 – Dec 2020

Software Test Engineer

- Developed and maintained test automation scripts for functional GUI testing of mobile applications using Appium
- Configured Continuous Integration using Bitrise for Swvl's Captain App
- Managed and monitored dev environment cluster pods using AWS/GCP and Kubectl
- Conducted API testing and verified document upload integrity on Amazon S3

Education

Bachelor of Science in Computer Engineering

2012 – 2017

El Minya Higher Institute of Engineering and Technology 🌐

Technical Skills

Backend

Ruby on Rails
Node.js
Ruby
JavaScript
TypeScript

Infrastructure

AWS (S3, EC2)
AWS ElasticSearch
AWS Athena
Azure DevOps
GCP

Databases

PostgreSQL
MySQL
MongoDB
Redis
ElasticSearch
Athena

Tools & Practices

Docker
Kubernetes
RSpec
Brakeman
CI/CD
Coralogix
DataDog
Jenkins
RabbitMQ
Sidekiq