

Ahmed Hossam Khalil

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Summary

Backend Software Engineer with **2 years** of experience at **noon**, building high-scale, high-reliability distributed systems using **Go, Python**, and a wide range of SQL / NoSQL Databases (**Bigtable, Spanner, MySQL, BigQuery**). Passionate problem solver, **3x ACPC Finalist**, and coach to many competitive programming teams. Head of the ACPC Regional Scientific Committee, responsible for problem writing, testing, and judging at scale. Deeply driven by performance, scalability, and delivering robust backend architectures.

Education

Suez Canal University

Ismailia, Egypt

Bachelor of Computer Science and Informatics

September 2019 — July 2023

- Grade: **Excellent with Honor**
- Achieved an "**Excellent**" grade for the Graduation Project - **Etlas** (github.com/Etlas-SCU/Etlas-Android)

Experience

noon

Cairo, Egypt

Software Development Engineer 2 (Full-Time)

February 2024 - Present

- Built two internal services from scratch:
 - A tools platform for the catalog team (product re-indexing, page creation, custom Bigtable Studio for decoding protobuf data, and other helpful utilities).
 - An internal form service used across noon for creating periodic forms, collecting data, managing feedback, and supporting internal workflows.
- Took full ownership of the Product Listing Page (PLP) and Product Detail Page (PDP) backend, improving speed, stability, and adding new features.
- Improved PLP/PDP performance by optimizing heavy queries, reducing slow backend paths, and building stronger caching systems.
- Maintained and improved a background service (Python) that handles product and offer re-indexing and other catalog tasks, adding new features and making it more reliable.
- Helped rewrite a main catalog service from JavaScript to Go, making it faster, cleaner, and easier to maintain.
- Refactored another backend service and added shared utilities like Bigtable helpers, caching helpers, and common code modules to improve structure and reuse.
- Delivered backend features in Go and Python, working with Bigtable, Spanner, MySQL, BigQuery, and other data systems.
- Improved code quality through pre-commit hooks, better remote config setup, and more consistent coding practices.
- Mentored new team members, supported onboarding as a buddy, and helped the CAKE program for new joiners.
- Enhanced monitoring and reliability using Google Metrics, Alerts, and other observability tools.

Skills: Git, Github, Backend Development, Python, SQL, GO, JavaScript, Google Big Query, Google PubSub, Information Security (Infosec), Google Spanner, Google Metrics, Google Alerts, System Design, Monitoring tools, Presentation, Mentorship, Microservices, API Development, Distributed Systems, High-Scale Services, Google Pub/Sub.

Skills

Languages	Go, Python, SQL, JavaScript, TypeScript, C, C++, Java, HTML, CSS
Backend & Systems	Microservices, Distributed Systems, High-Scale Architecture, Caching, Background Jobs, Performance Optimization
Databases	MySQL, Spanner, Bigtable, BigQuery, Redis
Cloud & DevOps	Google Cloud Platform, Docker, Kubernetes, Bash, Shell, CI/CD
Messaging	Google Pub/Sub
Frameworks	FastAPI, Django, ReactJS, React Native
API & Testing Tools	Postman, Swagger
Monitoring & Observability	Google Metrics, Google Alerts, Cloud Logging, Service Monitoring
Developer Tools	Git, GitHub, GitLab, Linux, Trello, Figma, Scripts
Productivity	Markdown, LaTeX, Google Workspace, Microsoft Office

Honor & Awards

Egyptian Collegiate Programming Contest

23rd place (2023), 26th place (2022), 48th place (2021)

Arab & African Collegiate Programming Contest

49th place (2023), 56th place (2022), 76th place (2021)

Languages

Arabic – Native

English – Advanced