

Ahmed Faraj

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EDUCATION

B.Sc. in Computer Science — Suez Canal University

GPA: 3.65/4.00 | Ranked 3rd (Academic Excellence Award)

Egypt

Sep 2023 – Jul 2027

EXPERIENCE

Datajar — AI Data Analytics

Software Engineer (Part-Time)

Nov 2025 – Present

Berlin, Germany (Remote)

- Architected data pipelines across 3 microservices, automating the ingestion of 50+ datasets for 1K+ active users.
- Scaled system to 10K+ requests per minute via API integrations with Shopify, Shopware, Meta/Google Ads
- Processed 1M+ monthly events via attribution pipelines for PostHog, Google Analytics, GTM, and Meta Pixel.
- Enforced data isolation for 100+ GB across 4 environments via a MinIO registry and WorkOS auth layer.

OPEN SOURCE

GitLab

Open Source Contributor

Oct 2025 – Jan 2026

MRs

- Resolved false port conflicts between Nginx and Zoekt that blocked local environments starting MR #5345
- Added TTY guards before destructive backup and log operations MR #5291

CNCF

Cloud Native Contributor

Jun 2026 – Present

PRs

- Fixed a scheduler cancel race that abandoned a running stage and ran rollback in parallel PipeCD #6979
- Root-caused ServiceAccount secrets never reaching edge clusters to a metadata-only apply path KubeStellar #3870

RESEARCH

Does Your MCP Server Actually Follow the Protocol?

A. Faraj | *arXiv Preprint (cs.SE)*

Aug 2026

Paper | Dataset

- Executed 6,106 registered servers in Docker sandboxes; only 61.1% complete a protocol handshake as published.
- Traced an 88.4% shared deviation to SDK defaults; supplied the first deployment data to open spec SEP-2145.
- Surfaced a silent-execution class in 3.5% of servers that run tools on arguments their own schema rejects.

ACHIEVEMENTS & CERTIFICATIONS

- Competitive Programming:** ACPC Finalist | Meta Hacker Cup R2 Finalist ICPC | Meta
- Ratings:** Codeforces Expert (Top 1% Egypt), LeetCode Knight (Top 2% Globally) Codeforces | LeetCode
- Certifications:** AWS Certified Solutions Architect (SAA-C03) | Redis Certified Associate AWS | Redis

PROJECTS

Orbit Onboard on AWS | *Python, AWS (Lambda, SQS)*

Jun 2026 | Demo | Architecture | GitLab

- Transformed onboarding to seconds via a Knowledge Graph agent ranking 13K+ definitions by call centrality
- Orchestrated a serverless AWS backend yielding <500ms latency, zero idle compute, and strict WAF security

Event Streaming System | *Go, Kafka, Redis*

Ongoing | Demo

- Orchestrated a distributed event pipeline to record and process real-time events with a top-N popularity ranking
- Exposed REST endpoints for viewing details and querying data with concurrency and error handling

SKILLS

Languages: C/C++, Go, Java, Python, JavaScript/TypeScript | **Frameworks:** React, Next.js, Node.js, Express

Tools: Docker, Kubernetes, Terraform, CI/CD, Kafka | Linux, Git, Vim | PostgreSQL, MongoDB, Redis | AWS, GCP

COMMUNITY

- YouTube:** Created technical videos on AI agents, systems programming, and competitive programming YouTube
- ICPC (IT Head) & GDG (IT Specialist):** Mentored 1K+ in CS and authored 50+ ECPC problems ICPC | GDG