Ahmed Faraj

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EDUCATION

B.Sc. in Computer Science, Faculty of Computers & Informatics, Suez Canal University   Sep 2023 – Jul 2027
GPA: 3.7/4.0 *(Top 1% of class - Ranked **3rd** with Academic Excellence Award)*   *Transcript*
Coursework: Data Structures, Algorithms, OOP, Databases, Networks, Operating Systems, Assembly, Compilers

EXPERIENCE

GitLab | *Open Source Contributor / Backend & DevOps Engineer | Remote*   Sep 2025 - Present | GitLab
- Improved backend reliability by resolving false port conflicts between Nginx and Zoekt processes   MR #5345
- Added TTY prompts to protect backups and logs, and fixed failures blocking CI/CD tests   MR #5291 | MR #5298
- Refactored cURL commands to multi-line REST API format, improving server request execution   MR #207789
- Updated ChatOps deployment image alt text for accessibility in automated status outputs   MR #207557

PROJECTS

Event Streaming System | *GO, Kafka, Redis*   Ongoing | Demo Video | GitHub
- Built a real-time, low-latency event pipeline to record and apply like events with a top-N popularity ranking
- Exposed REST endpoints for viewing details, liking videos, and querying data with concurrency and error handling

AI Log Analysis Platform | *Next.js, FastAPI, Postgres, Docker*   Aug 2025 | GitHub
- Engineered an AI agent for log analysis, automated summarization and debugging, and fix recommendations
- Implemented error detection and summarization that highlights faulty log segments and suggests corrective actions

Student Management API | *Node.js, Express, MongoDB*   Apr 2025 - May 2025 | GitHub
- Developed a RESTful API to manage student records with 10+ CRUD endpoints using MVC and MongoDB
- Documented APIs via Swagger/Postman and enforced quality/security via ESLint and environment config

Jack OS | *HDL, Jack, VM*   Oct 2025 | GitHub
- Built an operating system for a 16-bit Hack CPU and VM supporting file I/O, memory, and system calls
- Implemented a stack-based VM and Jack compiler to translate high-level programs into executable machine code

Lox Interpreter | *Java, JVM, Make*   Feb 2025 – Mar 2025 | GitHub
- Built a recursive-descent interpreter on the JVM with post-order AST evaluation, lexical scoping, closures
- Automated AST class generation and unit testing via Makefile, integrated Java FFI for native interoperability

ACHIEVEMENTS

- **ACPC Finalist:** Qualified for ACPC; ranked 59th in ECPC and 1st in university   Aug 2025 | ICPC
- **Meta Hacker Cup:** Advanced to Round 2 (Global Top 4,732/22,494)   Oct 2024 | Meta
- Rated Expert on Codeforces (1600+, Egypt Top 1%), LeetCode Knight (1900+, Global Top 3%)   National Rank
- Solved 3000+ algorithmic problems and 100+ SQL problems   Codeforces | LeetCode | AtCoder | HackerRank

OPEN SOURCE

- **Hacktoberfest:** Achieved Top 10,000 global contributors and earned Super Contributor   Oct 2025 | Holopin
- **GitLab Hackathon:** Ranked 2nd among 100+ contributors and contributed to core projects   Oct 2025 | GitLab
- Contributed 30+ merged PRs/MRs, focused on improving backend systems and developer tools   PRs | MRs

SKILLS

Programming: C/C++, Go, Java, Python, Ruby, JavaScript, TypeScript, React, Next.js, HTML, CSS
Backend & DevOps: Node.js, Express | Docker, Kubernetes, CI/CD pipelines, Jenkins, Terraform | Kafka, Spark
Systems & Databases: Linux, Bash, Git | Vim, tmux | MySQL, PostgreSQL, SQLite, MongoDB, Redis | AWS
Tools & Concepts: Postman, Swagger, Jest, Nginx, GraphQL | SOLID principles, Design Patterns, Clean Code

VOLUNTEER EXPERIENCE

ICPC SCU | *Vice Head of IT / Problem Setter*   Jun 2024 - Present | Archive
- Mentored 500+ trainees in DSA & problem-solving; created and tested 150+ problems for ECPC/internal contests

Google Developer Group | *IT Specialist*   Feb 2025 - Aug 2025 | Archive
- Instructed 100+ students in CS concepts applying critical thinking, leadership, communication, and teamwork