

Ahmed Faraj

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EDUCATION

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

EXPERIENCE

GitLab | *Open Source Contributor / Backend & DevOps Engineer* | Remote Sep 2025 - Present | [GitLab](#)

- Improved backend reliability by eliminating false port conflicts from Nginx and Zoekt processes [MR #5345](#)
- Added TTY prompt in to protect backups and logs for safety in local environment and CI workflows [MR #5291](#)
- Fixed TTY tests to prevent CI/CD blocking, enhancing DevOps automation and workflow reliability [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

Mini Agent | *Next.js, FastAPI, Postgres, Docker* Aug 2025 | [GitHub](#)

- Engineered an AI agent with a FastAPI backend and Next.js frontend for LLM-based chat and log analysis
- Implemented a log debugger that identifies problematic lines, produces summaries, and suggests fixes
- Structured the backend with Postgres, SQLAlchemy, and SQL migrations; enabled deployment via Docker

Student Management System | *Node.js, Express, MongoDB* Apr 2025 - May 2025 | [GitHub](#)

- Built 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* Jan 2025 – Mar 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

Portfolio | *Full Projects & Certificates Showcase* [Website](#)

ACHIEVEMENTS & AWARDS

- ACPC Finalist:** Qualified for ACPC; ranked 59th in ECPC and 1st in university Aug 2025 | [ICPC](#)
- Meta Hacker Cup:** Advanced to Round 2 (Top 4,732/22,494) Oct 2024 | [Meta](#)
- IEEEExtreme:** ? Rank out of 8385 team around the world Oct 2025 | [IEEE](#)
- Rated Codeforces 1600+ (Expert, Egypt Top 1%) and LeetCode 1900+ (Knight, Global Top 3%) [National Rank](#)
- Solved 3000+ algorithmic problems and 100+ SQL problems [Codeforces](#) | [LeetCode](#) | [AtCoder](#) | [HackerRank](#)
- Hacktoberfest:** Ranked in top 10,000 and earned Super Contributor Oct 2025 | [Holopin](#)
- GitLab Hackathon:** 2nd Place, contributed to core GitLab projects Oct 2025 | [GitLab](#)
- Contributed 30+ merged PRs and MRs mainly improving backend systems, and developer tools [PRs](#) | [MRs](#)

SKILLS

C/C++, Go, Java, Python, JavaScript, TypeScript, Node.js, Express | React, HTML, CSS, Postman, Swagger, Jest
Vim, tmux | Linux, Bash, Git | Docker, Kubernetes, CI/CD pipelines, Jenkins, Terraform | Nginx, GraphQL | AWS
Kafka, Spark | MySQL, PostgreSQL, SQLite, MongoDB, Redis | SOLID, Design Patterns, Event-driven Architecture

VOLUNTEER EXPERIENCE

ICPC SCU | *Vice Head of IT / Problem Setter* Jun 2024 - Present | [Archive](#)

- Mentored 500+ trainees in DSA & problem-solving and created/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