Abdelrahman Elaraby

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EDUCATION

B.Sc. in Computer Science

Faculty of Computers and Informatics, Zagazig University   *Oct. 2023 – Jul. 2027*

- **GPA:** 3.95/4.0 *(Top 1% of class – Ranked 1st with Academic Excellence Award)*
- **Coursework:** Data Structures, Algorithms, OOP, Databases, Networks, Operating Systems, Cloud Computing

EXPERIENCE

Backend Developer Intern   Remote — Jul. 2025 – Oct. 2025 — Certificate

Elmakan Systems

- Contributed to backend development for major English-learning platforms, including Englisher Official and Speakefy, focusing on API design, testing, and database modeling , supporting over 5,000 daily active user
- Built and maintained scalable RESTful services using Express.js and MongoDB, including performance optimization, CDN integration, and production deployment pipelines.

TECHNICAL SKILLS

- **Programming Languages:** C++, Java, Python, JavaScript (ES6), TypeScript, HTML, CSS, SQL
- **Frameworks & Libraries:** React.js, Node.js, Express.js, NumPy, Pandas
- **Databases & Tools:** MongoDB, PostgreSQL, SQLite, Redis, Git, Docker, Vercel, Postman, Swagger, Jira
- **Core Concepts:** OOP, Data Structures & Algorithms, Database Design, RESTful APIs, JWT Authentication

PROJECTS

Speakefy | *Next.js, Express.js, TypeScript, MongoDB, Paymob*   Jul. 2025 – Nov. 2025 | Live Demo

- Contributed as backend developer for the first online English language learning platform in the Arab world
- Integrated Paymob billing systems with webhook ingestion and reconciliation jobs for secure transactions
- i18next localization, geo detection, and CDN-backed media uploads to provide a seamless international experience

Magitsh | *Node.js, CLI, File Systems*   Nov. 2025 | GitHub | npm

- full Git implementation in Node.js with core commands (init, add, commit, branch, checkout, merge, diff, log)
- Implemented Git internals (blobs, trees, commits) with SHA-1 hashing and zlib compression
- DAG-based commit history with BFS for merge-base detection and three-way conflict resolution.

Rochetta | *React.js, Express.js, MongoDB, Cloudinary*   Aug. 2025 – Sep. 2025 | GitHub | Live Demo

- Built responsive React.js frontend for online pharmacy with product browsing, cart, search, and authentication
- Developed RESTful API to handle users, products, carts, and orders with role-based access control

Business Incubator Platform DBMS | *Express.js, PostgreSQL, EJS, Electron*   Feb. 2026 | GitHub

- Open-source platform unifying project tracking, mentorship, workshops, resources, and funding for startups.
- Web app for entrepreneurs and Electron desktop app for admins, all connected to a single PostgreSQL database

Bash Elbalad | *C++, Linux*   January 2025 | GitHub

- Developed a custom Linux shell supporting command execution, history tracking, and arrow key navigation
- Implemented core file system commands (cat, touch, rm, mv, cp, ls, mkdir, rmdir) with input/output redirection

EXTRACURRICULAR

Zag Eng Family

Technical Support   *Aug. 2025 – Sep. 2025 | Archive*

- Trained and supported 10 participants in Node.js workshop, assisting with Express.js and MongoDB projects.

ICPC Zagazig University Community

HR Team Lead   *Nov. 2024 – Dec. 2025 | GitHub*

- Led a 9-member team and developed HR Tracker in Python/Tkinter/SQLite to monitor performance of over 50 mentors.