

Ahmed Adel

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LinkedIn: [linkedin.com/in/ahmed-adel-90b369276](https://www.linkedin.com/in/ahmed-adel-90b369276) | **GitHub:** github.com/AhmedAdelCoder
Portfolio: ahmedadelcoder.github.io/Ahmed_Adel

PROFESSIONAL SUMMARY

Full Stack Developer and Computer Science undergraduate with hands-on experience across the full development lifecycle — from responsive front-end interfaces to RESTful back-end services and cross-platform mobile applications. Proficient in JavaScript, TypeScript, React, Node.js, Express.js, Flutter, and both relational (MySQL) and NoSQL (MongoDB) database systems. Strong foundation in data structures, algorithms, object-oriented programming, and database design, developed through academic coursework and independent software projects. Delivered freelance web applications with measurable performance improvements and supported API documentation and testing during a technical internship. Seeking a Full Stack Developer or Software Engineer internship to apply strong problem-solving skills, technical versatility, and a fast-learning mindset to real-world engineering challenges.

EDUCATION

Ain Shams University — Faculty of Computer Science 2023 – 2027
B.Sc. in Computer Science (Fourth-Year Student) | Cairo, Egypt

RELEVANT COURSEWORK

Advanced Databases, Cryptography, Mobile Development (Flutter), Computer Graphics, Compiler Design, Combinatorics, Data Structures & Algorithms

WORK EXPERIENCE

Freelance Web Developer Jan 2024 – Present
Remote

- Developed 3 fully responsive client websites using HTML5, CSS3, and JavaScript, ensuring consistent performance across browsers and devices.
- Collaborated directly with designers and clients to translate mockups into clean, functional UI/UX interfaces.
- Optimized site performance through code minification and asset compression, achieving a 90+ score on Google PageSpeed Insights.

IT Intern — CairoTech Solutions Jul 2023 – Sep 2023

- Assisted in configuring internal network infrastructure and setting up databases to support internal business tools.
- Documented RESTful API endpoints and tested backend routes using Postman to support development and QA workflows.
- Streamlined internal onboarding documentation, reducing new-hire onboarding time by 25%.

PROJECTS

UniLink — Cross-Platform Mobile Application (Flutter) May 2026

- Built a cross-platform mobile application in Flutter and Dart connecting university students with real-time job listings.
- Integrated Firebase Firestore and Firebase Authentication to manage real-time data and secure user accounts.
- Implemented CV and media upload functionality using Cloudinary.
- Designed application state management using the BLoC pattern to support a scalable, responsive user interface.

Technologies: Flutter, Dart, Firebase, Cloudinary, BLoC

GitHub: github.com/AhmedAdelCoder/UniLink

Pharmacy Management System — Desktop Application Dec 2025

- Built a full-featured desktop pharmacy management application in Java, integrating inventory tracking, sales management, and reporting modules into a single system.
- Designed the graphical user interface using Java Swing, applying object-oriented design principles for a modular and maintainable codebase.

Technologies: Java, Swing

GitHub: github.com/AhmedAdelCoder/Pharmacy-System-Project

Metro Management System — Relational Database (MySQL)

Nov 2024

- Designed a normalized relational schema in MySQL to model 20+ metro stations and 100+ station connections.
- Wrote and tuned complex SQL queries (joins, indexing, subqueries), improving query performance by approximately 40%.

Technologies: MySQL, SQL

GitHub: github.com/AhmedAdelCoder/SQL_Metro

Pharmacy Database — MySQL & JPA (Dual Implementation)

May 2026

- Built two versions of a pharmacy database: one implemented directly in MySQL and one using JPA (Java Persistence API) with Hibernate.
- Designed relational schemas emphasizing data integrity and referential consistency across both implementations.
- Applied object-relational mapping (ORM) principles to compare raw SQL and ORM-based data access approaches.

Technologies: MySQL, Java, JPA, Hibernate

GitHub: (MySQL) github.com/AhmedAdelCoder/Pharma_DB | (JPA) github.com/AhmedAdelCoder/ADB_JPA_Pharmacy

ACHIEVEMENTS

- Improved SQL query performance by ~40% on a 20+ table relational schema through query optimization and indexing.
- Achieved a 90+ Google PageSpeed Insights score across all freelance client websites delivered.
- Reduced new-hire onboarding time by 25% by restructuring internal API documentation at CairoTech Solutions.
- Regularly solves algorithmic challenges and participates in competitive programming contests (sorting, graphs, dynamic programming).
- Completed 3 industry-recognized certifications in web development, JavaScript, and networking fundamentals.

SKILLS

Programming Languages: C++, JavaScript, TypeScript, Java, Python, Dart

Frontend: HTML5, CSS3, Responsive Web Design

Backend: Node.js, RESTful API Design, Authentication & Middleware

Mobile: Flutter, BLoC State Management

Databases: MySQL, MongoDB

Frameworks: React, Express.js, Java Swing, JPA/Hibernate

Developer Tools: Git, GitHub, VS Code, Linux, Postman

Cloud/Services: Firebase (Firestore, Authentication), Cloudinary

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Database Design, Networking Fundamentals

Soft Skills: Team Collaboration, Critical Thinking, Time Management, Fast Learning, Problem Solving

LANGUAGES

Arabic (Native) • English (Intermediate, B1–B2)