

Mohamed Rashed

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[LinkedIn](#) | [GitHub](#) | [Website](#)

Summary

A computer science student who likes to work on and create new projects, applications, websites and games while also testing and exploring new technologies and techniques to improve and push himself forward.

Education

Cairo University – B.Sc. Computer Science | 2023 – 2027 (expected)

Experience

Backend Developer & Tester – Developer Student Club (DSC), Cairo University | April 2025 – Present

- Worked as a backend developer and tester in a student-led team.
- Built and tested backend APIs using Node.js and MongoDB, ensuring system reliability and security.
- Collaborated with frontend team for integration and bug resolution.

Projects

Pharmacy Point of Sales (Flutter, Firebase, SQLite, Docker) – [LINK](#)

- Built a POS system for pharmacies, enabling 100% offline functionality with cloud sync.
- Reduced transaction errors through conflict resolution logic for unsynced sales and stock inconsistencies.
- Enabled pharmacists to serve up to 10 customers simultaneously with multi-tab support.
- Improved inventory accuracy with real-time stock updates across devices.
- Designed scalable architecture, tested in Docker containers, ensuring smooth deployment and cross-platform reliability.

E-Commerce Platform (Angular, Node.js, MongoDB) – [LINK](#)

- Designed and developed a secure e-commerce website with product search, cart management, and profile updates.
- Implemented password hashing, JWT authentication, and role-based access control, improving security.
- Built an admin dashboard supporting full CRUD operations on users and products, cutting moderation time.
- Optimized API performance to handle 1,000+ simulated users with responsive browsing and transactions.
- Ensured safe user experience by integrating Angular route guards and backend validation.

Budgeting App Cero (Java, SQLite, JavaFX)

- Collaborated in a team of 3 to build a personal finance management app.
- Helped design and implement the GUI using JavaFX, focusing on usability and clear navigation.
- Developed backend logic for key features including the Summary tab, Reminders, and Income Sources.
- Enabled users to track expenses and income through categorized entries and visual summaries, with persistent storage in SQLite.

Gama Glam – Image Editor (C++, Qt) – [LINK](#)

- Collaborated in a team of 3 to develop a lightweight desktop image editor.
- Implemented the **backend logic** powering the editor, including **real-time preview functionality**.
- Developed **7 of the 20+ image filters**, ensuring optimized performance and accurate rendering.
- Contributed to support for **multiple image formats**, improving compatibility and usability.

Technical Skills

Programming Languages: C++, C#, Java, Python, JavaScript, TypeScript, Dart, HTML, CSS

Frameworks & Libraries: Flutter, Django, Angular, React, Node.js, Express.js, Qt, JavaFX, Tkinter

Databases: SQLite, MySQL, Microsoft SQL Server, Firebase Firestore, MongoDB

Tools & Platforms: Git, Docker, Firebase, Excel

Certifications & Training

- AWS – Generative AI (2025)
- NVIDIA – Deep Learning (2025)
- Harvard – CS50 (2023)
- Trainee – National Telecom Institute (NTI) (Jul 2025 – Aug 2025)
- Digitopia Competition – Certified in worldwide Egyptian technology competition

Language

- Arabic – Native
- English – Proficient