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

Education

Cairo University Faculty of Engineering

Giza, Egypt

B.Sc. in Computer and Communication Engineering, GPA: 3.64

Expected July 2025

- Class representative and previous head of the software development team at Momentum Robotics, Cairo University.

Work Experience

Siemens EDA

Cairo

Software Engineer Intern (VLAB Team)

May 2024 – Present

Technologies: C++, CMake, Python, Linux

- Built a complete IDE where a user can import a Verilog project and edit it using GUI or CLI.
- Extracted Verilog module data into JSON for dynamic population and visualization of integrated circuits.
- Developed GUI features using Qt C++ to enable users to add, resize, rearrange, and connect Verilog modules.
- Conducted unit and integration testing; participated in daily stand-ups and agile ceremonies.

VOIS

Cairo

Software Engineer Intern (Backend)

August 2023 – October 2023

Technologies: Java, Spring Boot, OpenAPI, SQLite, JUnit, Mockito, GitHub, AssertJ, Hibernate

- Revamped the backend architecture; guided the team through testing, implementation, and documentation.
- Developed standout features; improved user experience and ensured smooth deployment.

Orange Business

Cairo

Cloud Engineer Intern

July 2023 – August 2023

Technologies: Linux, Docker, Kubernetes, Vagrant, Nginx

- Mastered containerization and Kubernetes; led a web application deployment with Docker, Kubernetes, and Nginx.
- Received accolades for excellence and presentation quality.
- Leveraged cloud technologies to foster collaboration and deliver exceptional results.

Banque Misr Digital Factory

Cairo

Data Scientist Intern

August 2022 – October 2022

Technologies: Python, Pandas, SQL

- Coordinated a team of 10 to deploy machine learning models for the BMonline app.
- Implemented a feature to locate ATMs and branches based on user location.
- Offered a part-time position post-internship for outstanding contributions.

Project Experience

cReddit Backend Development

Technologies: Node.js, Express.js, MongoDB, Mongoose, Jest

- Led a four-member team in developing a scalable Reddit-like platform.
- Implemented paginated post feeds, JWT authentication, push notifications, and real-time chat.
- Achieved over 90% unit test coverage.

Electronic Healthcare Records System

Technologies: C#, .NET, Azure, SQL

- Designed and implemented a scalable healthcare system with multiple user views.
- Developed a secure database schema for patients, hospitals, laboratories, pharmacies, and administrators.

Egyptian Premier League Match Reservation System [🔗](#)

Technologies: MERN Stack

- Engineered a robust match reservation platform with real-time updates via WebSockets.
- Integrated advanced features for seamless user interactions.

Escape the SCP [🔗](#)

Technologies: C++, OpenGL, CMake

- Created a 3D game engine in OpenGL; developed a horror game that won 2nd place in competition.

Al Kabeer Robotics Challenge [🔗](#)

Technologies: C++, Arduino, Java, OpenCV

- Led a 22-member team to develop a versatile robot for multiple tasks; won first place among 10 teams.

Shipping Company Simulation [🔗](#)

Technologies: C++, Data Structures, Algorithms

- Simulated shipping logistics with custom data structures and algorithms.

Certifications

- Machine Learning Specialization (Coursera, Andrew Ng)
- The Web Developer Bootcamp (Colt Steele)
- Machine Learning A-Z (Kirill Eremenko & Hadelin de Ponteves)
- Web Development Challenger Track (Egypt FWD)

Skills

Skills: C++ (proficient), C# (proficient), JavaScript (proficient), Python (proficient), SQL, MongoDB, Linux, Java.

Interests: Leadership, public speaking, handball.