

# KEVIN HANY BASTAWROUS

Cairo, Egypt

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## Work Experience

### Commercial International Bank (CIB)

July 2025 – Aug 2025

Summer Intern

Cairo, Egypt (Remote)

- Researched and presented strategies on **AI-driven cybersecurity**, sustainable finance, and risk management, strengthening knowledge of secure system integration.
- Collaborated with professionals in **AI/ML and security domains**, gaining exposure to practical applications of AI ethics and digital transformation initiatives.

## Education

### Ain Shams University

Expected June 2027

Bachelor of Computer Science

Cairo, Egypt

- CGPA: 3.85/4.0
- Relevant Coursework: Algorithms and Data Structures, Operating Systems, Artificial Intelligence, Computer Architecture, Software Engineering

## Technical Skills

**Languages:** Python, C++, Go, SQL, JavaScript

**Developer Tools:** Git, Docker, Postman, GitHub Actions, Jupyter Notebook

**Libraries/Frameworks:** Node.js, PostgreSQL, MongoDB, TensorFlow, Scikit-learn

## Projects

### Camaroo (Custom Language) | C++, CMake, Compilers

2024 – Ongoing

- Developed a **Lexer, Parser, and AST** to support modular interpretation of a custom programming language.
- Improved parsing reliability with structured error handling techniques inspired by compiler theory.

### AutoComplete Text Editor | C++, Qt, Data Structures

2025

- Built an interactive editor with **real-time text prediction** using a Trie data structure, reducing lookup latency from  $O(n)$  to  $O(k)$ .
- Added **frequency-based suggestions** and user-defined vocabularies for adaptive predictions.

### URL Shortener Service | Go, MySQL, REST APIs

2024

- Implemented a scalable service supporting **10k+ URL mappings** with persistent storage in MySQL.
- Applied **MD5 hashing** for unique, collision-resistant identifiers and optimized API endpoints for concurrency.

## Extracurricular Activities

### Open Source Community (OSC)

May 2025 – Present

Backend Developer

Cairo, Egypt

- Developed and maintained **production-grade backend APIs** using Node.js and PostgreSQL.
- Applied **REST design patterns, scalability principles, and CI/CD** in team-based projects.

### ACM ICPC Community

Aug 2023 – Aug 2025

Member

Cairo, Egypt

- Solved 700+ problems on **algorithms, graph theory, and dynamic programming**, strengthening competitive programming skills.
- Applied **time complexity analysis and memory optimization** in algorithmic problem solving.