

# KHALID ALANSARY

New Cairo, Egypt

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## EDUCATION

### Ain Shams University

Bachelor of Science in Computer and Systems Engineering

Sep. 2021 – June 2026

- **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Software Engineering, Networks
- **Academic Projects:**
  - \* [Online Marketplace](#) | TypeScript, React, Supabase, PostgreSQL, Tailwind CSS
    - A full-stack marketplace app with user authentication, product listings, and transactions between users.
  - \* [Tiny Language Parser](#) | C, C++, Qt, Graphviz
    - Developed a compiler frontend with a GUI that generates a parse tree for the Tiny programming language.
  - \* [Multipurpose XML Utility](#) | C++ (with boost library), Qt, Graphviz
    - A desktop application that validates and formats the XML, converts it to JSON, fixes misplaced tags, visualizes the XML data, along with various other features.
    - Applied suitable data structures and algorithms for representing and manipulating the XML internally.
  - \* [Charity Management System](#) | Docker, PHP, PostgreSQL
    - Multi-Page site with PHP with focus on applying good design patterns such as the MVC pattern.
    - Containerized the project with each component in its own container for robust and extensible development and deployment.

## EXPERIENCE

### Ezz Steel

July 2024

Industrial Automation and IT Summer Internship

Ain Sokhna, Suez

- Created Python scripts that normalize CSV files to facilitate importation into the Oracle database.
- Acquired proficiency in server and network management, and security protocols, by implementing user-specific privileges on the company network.

## CERTIFICATIONS

[GitHub Foundations certification](#) | Git, GitHub

March 2025

Validated proficiency in Git version control, collaborative workflows, and GitHub platform features.

## COURSES & PROJECTS

[Vencord \(Discord\) Global Keybinds Plugin](#) | TypeScript, ElectronJS, NodeJS, Linux

June 2025

- A Discord plugin that fixes global keybinds not working on Linux (and other Unix-like systems) running on Wayland by implementing XDG Global Shortcuts Portal using interprocess communication with dbus on Linux.

[Scrimba's Advanced React course](#) | React, Javascript, HTML, CSS

March 2025

- Implemented reusability patterns and custom hooks for state management in an e-commerce application.
- Built client-side routing with protected routes and integrated Firebase for authentication and database operations.
- Applied performance optimization techniques including memoization and lazy loading for complex applications.

[HarvardX: CS50's Introduction to Databases with SQL](#) | SQL, SQLite, MySQL, PostgreSQL

Feb. 2024

- Learned how to create, read, update, and delete data using SQL commands. Gained practical experience with various database management systems, such as SQLite, MySQL, and PostgreSQL.
- **Final Project:** Developed a database application to manage a library system, including features for book checkouts, returns, and user management. Utilized advanced SQL queries and optimized database performance.

[HarvardX: Computer Science for Artificial Intelligence](#) | Python, TensorFlow, Algorithms

Aug. 2023

- Gained exposure to the theory behind graph search algorithms, classification, optimization, reinforcement learning, and other topics in artificial intelligence and machine learning

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, HTML/CSS, Python, Java, SQL, C/C++, Bash/Shell scripting

**Frameworks:** React, Node.js, Flask, Django, Qt

**Developer Tools:** Git, Docker, Linux, Vim, CMake, VS Code

**Libraries:** Boost, tkinter, pytest, pandas, NumPy, Matplotlib