KHALID ALANSARY

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EDUCATION

Ain Shams University   GPA: 2.99/4.0
Bachelor of Science in Computer and Systems Engineering   *Sep. 2021 – June 2026*

- **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Software Engineering, Computer 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.

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

Scrimba's TypeScript course | *TypeScript*   March 2025

- Learned TypeScript's static typing system to build scalable applications with improved code quality, error detection, and developer productivity.

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

HarvardX: Computer Science for Python Programming | *Python*   Oct. 2022

- Developed foundational programming skills in Python, including data structures, algorithms, and object-oriented programming.

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