

# Abdalkhman Khalid Alarbi

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## EDUCATION

College of electronic technologies-Tripoli

Tripoli, Libya

B.S in Software Engineering

Expected Graduation, Dec 2026

- **Concentrations:** Web Development , Desktop Development , Database Management
- **Related Coursework:** Data Structures & Algorithms , Computer Organization & Programming , Object-Oriented Programming , System Design and development

## Courses

### Programming Foundations – Level 1 (Programming Advices, 2024)

- Covered computer basics, binary systems, programming logic, and language fundamentals.

### Algorithms & Problem Solving – Level 1 To Level 5 (Programming Advices, 2024)

- Developed programming logic and algorithmic thinking through step-by-step projects and exercises across five levels.

### Introduction to Programming Using C++ – Level 1 (Programming Advices, 2024)

- Learned foundational C++ programming concepts including variables, data types, operators, control structures, functions, and arrays, with hands-on coding practice.

### Introduction to Programming Using C++ – Level 2 (Programming Advices, 2024)

- Focuses on intermediate C++ concepts such as debugging, functions, references, arrays, vectors, pointers, dynamic memory, exception handling, file operations, and date/time structures.

### Programming Foundations – Level 2 (Programming Advices, 2024)

- Covers core networking, internet protocols, IP addressing, and foundational IT concepts like APIs, 3-tier architecture, and basic security.

### OOP as it should be (Concepts) (Programming Advices, 2024)

- Covers core object-oriented programming concepts in C++, including classes, objects, encapsulation, abstraction, inheritance, polymorphism, and constructors/destructors.

### OOP as it should be (Applications) (Programming Advices, 2024)

- Covers practical C++ applications of OOP concepts, including library creation, user input validation, and system design for banking and currency exchange projects.

### Data Structures – Level 1 (Programming Advices, 2024)

- Introduces core data structures in C++, including arrays, stacks, queues, and linked lists, with focus on classifications, time/space complexity, and abstract data types.

### **Programming in C# – Level 1 (Programming Advices, 2025)**

- Covers programming fundamentals in C#, including control structures, arrays, methods, exception handling, and basic Windows Forms GUI components.

### **Database – SQL (Concepts and Practice) (Programming Advices, 2025)**

- Covers database fundamentals, ERD design, relational schema creation, SQL DDL and DML operations, queries, joins, views, constraints, indexes, and normalization.

### **OOP as it should be in C# (Programming Advices, 2025)**

- Focuses on classes, objects, access control, properties, interfaces, nested and partial classes, sealed classes, composition, and the use of class libraries.

### **Database – SQL (Projects and Practice) (Programming Advices, 2025)**

- Covers hands-on SQL exercises and real-world projects, including relational diagrams, CRUD operations, data extraction, aggregation, filtering, sorting, joins, views, self-referential queries, and database problem-solving using practical scenarios.

### **C# & Database Connectivity (Programming Advices, 2025)**

- Covers database management using ADO.NET, including CRUD operations, DataTables, DataViews, DataSets, and 3-tier architecture.

### **PHP for Beginners (Laracasts, 2025)**

- Introduced core PHP concepts including variables, arrays, conditionals, functions, forms, sessions, and authentication.

### **OOP in PHP (Laracasts, 2025)**

- Introduced PHP object-oriented programming concepts including classes, objects, inheritance, interfaces, encapsulation, and composition.

### **30 Days to Learn Laravel (Laracasts, 2025)**

- Covered core Laravel 11 concepts including routing, Blade templating, Eloquent ORM, authentication, and project deployment through a hands-on Job Board application.

## **PROJECTS**

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### **Note Pad**

- A Desktop application for creating, editing, and organizing text documents
- *Technologies Used:* C#, Windows Forms.

### **Expense Tracker**

- A Desktop application for tracking and editing Expenses and incomes and categorize them with the ability to filter them by Dates
- *Technologies Used:* C#, Windows Forms.

### Libyan Jobs Website

- A website for freelancers to create profiles, showcase projects, and get hired by companies or individual with job filtering by price and type
- *Technologies Used:* HTML, CSS, Javascript.

### Contacts Manager

- A Desktop application to store, organize, and search Users Contacts Info.
- *Technologies Used:* C#, Windows Forms, SQL.

### SKILLS

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**Programming:** PHP, Laravel , C# , ASP.NET CORE , HTML/CSS , SQL , Windows Forms, Javascript

**Tools:** VS code, Git ,Tailwind , Visual studio, Github