

# ALI HASSAN AZAD

## SOFTWARE ENGINEER UNDERGRADUATE

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## Profile

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Software Engineer undergraduate with hands-on experience in developing web and desktop applications through academic projects. Familiar with backend development, database systems, and software design principles. Able to approach problems using structured logic and continuously improving technical skills through practical implementation. Seeking an opportunity to gain industry exposure and contribute to real-world development environments.

## Technical Skills

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**Languages:** C#, C++, Java, Python

**Frontend:** HTML5, CSS3, JavaScript, Tailwind CSS, React (Basic)

**Backend:** .NET, ASP.NET Core

**Databases:** SQL Server, MySQL, Firebase

**Fundamentals:** OOP, Data Structures, Algorithms, Software Testing

**Tools:** Git, GitHub, Visual Studio, VS Code, Linux, Docker (Basic)

## Projects

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### Employee Management & Attendance Tracking System

*ASP.NET Core MVC, C#, SQL Server*

- Developed a full-stack application to manage employee attendance across multiple units.
- Implemented stored procedures and validation logic to ensure accurate attendance tracking.
- Built reporting features (Excel/PDF) and integrated dynamic UI updates using AJAX.

### Smart Appointment Scheduling System

*C#, .NET, SQL Server*

- Designed a multi-role scheduling system with conflict prevention using database triggers.
- Applied design patterns (MVC, Singleton, Repository) for structured development.
- Implemented logging and reporting features for better system tracking.

### Supermarket Management System (FLIPKART)

*Java, Java Swing (JFrame), MySQL, NetBeans*

- Designed a desktop supermarket system applying all core OOP principles - inheritance, encapsulation, abstraction, and polymorphism - through a multi-module architecture.
- Built separate modules for Admin, Seller, Product Manager, and Billing with MySQL database integration for persistent data management.
- Implemented role-based login, product/seller CRUD operations, and a real-time billing engine with receipt generation.

### Text-to-SQL Query System

*Python, SQLAlchemy*

- Developed a system to convert natural language queries into SQL statements.
- Extracted structured inputs (names, dates) and executed queries efficiently.
- Built a simple interface for displaying results.

## Education

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### Bachelor of Software Engineering

Bahria University, Karachi

Expected Graduation: 2027

### Intermediate

Fazaia Degree College Faisal, Karachi