

# Ali Hashem

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## PROFESSIONAL SUMMARY

Innovative Technical Solutions Architect combining a strong academic foundation in software engineering (Java, SQL, VB) with advanced AI-driven development workflows. Expert in orchestrating the rapid development of complex full-stack applications—from FinTech algorithms to Retail POS systems—using **Python (Flask)**, **PostgreSQL**, and **Next.js**. Proven ability to translate business requirements into deployed, scalable software solutions 5x faster than traditional lifecycles.

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## TECHNICAL SKILLS

- **Core Development:** Python (Flask), Next.js, JavaScript/TypeScript.
  - **Academic Foundation:** Java (OOP), Visual Basic (Legacy Systems), Advanced SQL, HTML/CSS.
  - **Database Management:** PostgreSQL (Relational Design), SQLite.
  - **AI & Automation:** AI Prompt Engineering, Code Orchestration, Automated Trading Logic, Video Processing (FFmpeg).
  - **Tools & Platforms:** Git, VS Code, Linux Environment.
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## PROJECT PORTFOLIO (Key Deployments)

### 1. Integrated POS & Accounting Ecosystem

- *Tech Stack:* Python (Flask), PostgreSQL
- Architected a comprehensive desktop/web solution for retail management.
- Designed a normalized Relational Database (SQL) to ensure data integrity for real-time sales and inventory tracking.
- Automated financial reporting (Profit/Loss statements), leveraging strong accounting logic.

### 2. Gold Market Algorithmic Trading Bot

- *Tech Stack:* Python, Financial APIs, Pandas
- Developed an automated trading system that analyzes live market data.
- Implemented technical analysis algorithms (RSI, Moving Averages) to execute buy/sell orders without manual intervention.

- Designed risk management protocols to automate Stop-Loss execution.

### 3. "Smart Waiter" Digital Menu System

- *Tech Stack: Python (Flask), Real-time Web Sockets*
- Created a contactless dining web app allowing customers to order and summon staff via QR code.
- Engineered the backend logic to synchronize orders instantly between the customer interface and the kitchen dashboard.

### 4. Service Appointment Booking Platform

- *Tech Stack: Python (Flask), SQL*
- Built a scheduling tool to manage staff availability and eliminate double-bookings.
- utilized complex SQL queries to handle time-slot logic and conflict resolution efficiently.

### 5. Content Automation Engine (Reels to Shorts)

- *Tech Stack: Python, Video Processing*
- Developed a tool to automatically reformat vertical videos for cross-platform distribution.
- Streamlined the content creation workflow, significantly reducing manual editing time.

### 6. Modern Web Platforms (Orbit Code & University Prep)

- *Tech Stack: Next.js, React*
- **Orbit Code:** Developed the corporate identity website focusing on SEO and high performance.
- **University Prep App:** Structured the learning path logic and quiz modules for a student educational platform.

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## EDUCATION)

**Amjad institute** / *Ts in Information Technology* | 2024-2026

- **Key Coursework:** Object-Oriented Programming (Java), Database Management Systems (SQL), Visual Basic Application Development, Web Fundamentals (HTML).
  - **Achievement:** Gained a solid understanding of software logic and database structuring, which now forms the basis for my advanced architectural work.
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