MOHAMED ABDALGADER

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SUMMARY

Passionate Computer Science student at Ain Shams University (Graduation: July 2026) with a proven track record of developing scalable, user-focused software solutions. Demonstrated success in streamlining processes and enhancing user engagement through innovative web applications. Adept in Python, C#, and JavaScript, with hands-on experience using frameworks such as Node.js, ASP.NET MVC, and Flask. Known for strong problem-solving, collaboration, and a drive for continuous improvement.

EDUCATION

Ain Shams University, Computer Science, Bachelor of Science

July 2026

PROJECTS

Book My Table [GITHUB]

Technologies: C#, ASP.NET Core MVC, Entity Framework Core, LINQ, JWT, REST API, SQL Server

- Developed a restaurant reservation system with separate interfaces for customers and admins.
- Implemented JWT-based authentication and role-based access control for secure user sessions.
- Created comprehensive CRUD operations for restaurant management, table configurations, and reservations.
- o Designed and documented REST API endpoints for both customer and admin functionalities.
- o Utilized EF Core for data persistence and integrated secure data access with SQL Server.

Courier Management System [GITHUB]

Technologies: C#, Oracle, Crystal Reports

- Designed and implemented a system for automated shipment tracking, invoicing, and billing that reduced processing time.
- o Developed secure user authentication and comprehensive reporting features for operational efficiency.

Operating System Components Project [GITHUB]

Technologies: C

- Integrated essential OS components, including memory management and process scheduling, to improve overall system efficiency.
- o Engineered custom algorithms that reduced system errors and optimized resource allocation.

• Tiny Compiler (Scanner & Parser) [GITHUB]

Technologies: C#

- Developed a compiler module for the Tiny Programming Language featuring lexical analysis (using regular expressions) and syntactic analysis based on defined grammar.
- o Enhanced error detection capabilities, contributing to improved code quality and debugging efficiency.

Movie Streaming Website [GITHUB]

Technologies: Python (Flask), SQLite, HTML, CSS, JavaScript

o Built a full-featured streaming platform with a responsive interface, leading to a measurable increase

- in user engagement.
- Implemented robust user authentication and role-based access control, ensuring a secure user experience.

• Income Prediction Al Model [GITHUB]

Technologies: Python, Machine Learning Libraries

- o A predictive model for income estimation by optimizing data preprocessing techniques.
- Implemented cross-validation and hyperparameter tuning, resulting in a significant boost in model accuracy and reliability.

SKILLS

- Programming Languages: C, C++, Java, Python, C#, JavaScript, TypeScript, HTML, CSS
- Frameworks & Libraries: Flask, ASP.NET MVC, Entity Framework Core, LINQ, JWT, Node.js, Express.js, JavaFX, REST API
- Databases: MySQL, SQLite, MS SQL Server, Oracle, MongoDB
- Tools: AWS, xUnit, Docker, Git, GitHub, GitHub Actions, Jira, Figma
- Soft Skills: Teamwork, Problem-Solving, Time Management, Analytical Thinking

CERTIFICATIONS

- Web Secure Coding: Cyberus ASU (Sep 2023)
- Python Essentials 1: Cisco (Jul 2022)
- Introduction to Cybersecurity: Cisco (Apr 2022)
- Java: Hacker Rank (Apr 2022)
- <u>UI/UX Design</u>: Support ASU (Sep 2022)

Languages

- Arabic Native
- English Fluent