

# AHMED MOHAMED ASHRAF HELMY

## Software Engineer

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### PROFILE

Highly motivated Computer Science graduate with a solid foundation in software development, machine learning, and database management. Experienced in building web and mobile applications, optimizing system performance, and developing data-driven solutions. Strong problem-solving abilities, effective collaboration in team environments, and a commitment to continuous learning. Adept at applying technical expertise to solve complex challenges and enhance user experiences.

### EDUCATION

**Future University in Egypt** | Bachelor of Computers and information Technology **2020- 2024**

- Department:** Computer Science
- GPA:** 3.05

### INTERNSHIPS

**Information Technology Institute (ITI)** **Mar , 2025 – Jul 2025**

- Track:** Full Stack - PHP,Laravel
- Program :** Intensive Code Camps – (4 Months)

**Mobile Application Trainee (Next Academy)** **Aug 2023 – Sep 2023**

- Track :** Mobile Application Development Using Flutter

### TRAININGS & CERTIFICATIONS

- Machine Learning , NTI** (Dec 2024 - Feb 2025)
- Database Fundamentals , Mahara Tech** (Aug 2024)
- Machine Learning , NIVDIA** (July 2022)
- Mastering Java Programming , YAT Solutions** (Sep 2021 - Nov 2021)
- C Language - Coursera** (Jun 2021)
- Web Development - Udacity EGFWD (Web Development Challenger Track)**

### TECHNICAL SKILLS

- Programming Languages:** Java, Python, C++, C, PHP
- Mobile Development:** Flutter, Dart
- Web Development:** HTML, CSS, JavaScript , Bootstrap , TypeScript , Angular , React , Laravel , node.js
- Database Management:** SQL, Firebase , MongoDB
- Version Control:** Git, GitHub
- Operating Systems:** Linux (Admin Level 1)
- Microsoft Office**

### PROJECTS

**Graduation Project: Duat - Revolutionizing Tourism with AI**

Developed an AI-powered application designed to enhance the travel experience in Egypt.

**The app features:**

- AI-driven monument recognition
- Traffic analysis and route optimization
- Hotel and flight booking services
- Currency exchange information
- Events calendar and news feed

Tools and Technologies Used:

- **Dart & Flutter:** Mobile app development (Android & iOS)
- **Python & TensorFlow:** AI models for image recognition and crowd prediction
- **Firebase:** Database, authentication, hosting, and real-time updates
- **APIs:** Google Flights, Hotels, Currency Exchange, and Nearby Places
- **Git/GitHub:** For version control and team collaboration

Title: Full-Stack Online Bookstore (MEAN Stack)

Developed a complete e-commerce platform where users can browse books, add them to a cart, place orders, and leave reviews. Built with Angular (frontend) and Node.js/Express + MongoDB (backend). Implemented features like user authentication with JWT, role-based access (admin vs user), book and order management, review system, and smart stock handling. Enhanced with AI-based book recommendations and chatbot assistant.

Tools & Technologies:

- Angular
- Node.js & Express.js
- MongoDB & Mongoose
- JWT & Bcrypt
- Multer (file uploads)
- GitHub + Postman
- Nodemailer (for emails)
- Stripe (payment integration)
- AI API (for chatbot & recommendations)

Title: AI Expense Tracker

Description:

Created a user-friendly expense tracker using Angular for the frontend and Firebase for the backend. The app lets users add income and expenses, view spending by category, and track their budget. It also includes AI features like a chatbot and smart tips that suggest better ways to manage money based on monthly spending.

Tools & Technologies:

- Angular
- Firebase (Firestore, Auth)
- TypeScript
- Chart.js
- Dialogflow or Cohere API (for AI features)
- HTML / CSS

Title: Movie Reviews Sentiment Analysis

Description:

Developed an intelligent system using NLP and machine learning to classify movie reviews as positive or negative. Utilized the NLTK movie reviews dataset, processed textual data, and trained a Naive Bayes classifier with TF-IDF features. Achieved an accuracy of 83% on test data.

Tools & Technologies:

- Python
- NLTK (Natural Language Toolkit)
- Scikit-learn
- TF-IDF Vectorizer
- Naive Bayes Classifier
- Google Colab

Title: ATM Simulation System

Description:

Designed a desktop ATM app using Java to handle login, balance check, deposit, withdrawal, transfer, and loan request with a user-friendly GUI and sound effects.

Tools & Technologies:

- Java , Java Swing
- NLTK (Natural Language Toolkit)
- NetBeans(IDE)
- Java Sound API
- Object-Oriented Programming (OOP)

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**Title: SAWAH Mobile Application**

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**Description:**

SAWAH is a mobile application designed for tourists to explore Egypt’s monuments. It enables users to register, authenticate, and browse monuments categorized by type, each with accompanying images and descriptions. Users can also save preferred monuments to a wishlist for future reference. The application is user-friendly and supports trip planning.

**Skills and Technologies Used:**

- **Flutter & Dart** – Developed the cross-platform mobile application.
  - **Firebase Authentication** – Implemented secure user registration and login.
  - **Firebase Firestore** – Designed and managed the database for monument details and user data.
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**SOFT SKILL**

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| <ul style="list-style-type: none"><li>• Communication Skills</li><li>• Team Collaboration</li><li>• Problem-Solving</li></ul> | <ul style="list-style-type: none"><li>• Presentation Skills</li><li>• Event Planning &amp; Organization</li><li>• Leadership</li></ul> |
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**EXTRACURRICULAR ACTIVITIES:**

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| <ul style="list-style-type: none"><li>• <b>Student Union - Future University in Egypt</b> (Dec 2022 - 2024)</li><li>• Organized the <b>Annual Art Workshop</b> at the Opera House (June 2022)</li></ul> | <ul style="list-style-type: none"><li>• Assisted in planning <b>entertainment events</b> at the university</li><li>• Participated in The 6th International Conference on Computing and Informatics (<b>ICCI 2024</b>)</li><li>• Contributed to the <b>MRC Robotics Competition</b></li></ul> |
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**LANGUAGES:**

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- Arabic (Native)
- English