# Ahmed Mahmoud

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## Summary

Full Stack Developer with 1.5+ years of experience building scalable web applications using Django, React.js, and Vue.js. Skilled in developing responsive frontends, designing robust backend systems, building RESTful APIs, and optimizing database schemas. Eager to learn and collaborate effectively with remote teams.

## Work Experience

**IT Branch Lead & Full Stack Developer**                                         Oct 2024 – Dec 2025
*Egyptian Armed Forces*

- Directed IT operations and supervised a 5-person technical team, managing 3 major projects across Systems Branch, demonstrating strong Collaboration.
- Engineered a centralized VVIP Logistics System using Django backend and React frontend, replacing manual Excel/Word workflows and reducing administrative processing time by 75% across 6 government entities.
- Implemented 3-tier Role-Based Access Control (RBAC) and WebSockets for real-time data synchronization, supporting 7 concurrent users during national events.
- Digitized legacy manual processes, automating data entry, reporting, and resource allocation workflows, enhancing operational efficiency.

**Course Instructor**                                                            Aug 2023 – Sep 2024
*Oraby Academy*

- Designed and delivered 5 structured curricula for Python and Object-Oriented Programming (OOP) across 6-7 student groups, teaching 30+ students.
- Achieved 90% course completion rate through engaging teaching methods, personalized attention, and strong student relationships.
- Created regular hands-on coding exercises and end-of-course projects to reinforce programming concepts and ensure practical skill development.

**Teaching Assistant (Data Science & SQL)**                                       Dec 2025 – Present
*Ain Shams Academy*

- Teaching SQL database design and management to 20+ students, covering normalization, indexing, and query optimization.
- Assisted in Data Science modules on data analysis and predictive modeling, achieving 85% average student satisfaction rating.
- Led 8 hands-on sessions on hardware troubleshooting and system diagnostics, simplifying complex technical concepts.

## Projects

**Polluscan** | *Full Stack – Django, React.js*

- Engineered a national-level air quality monitoring platform designed to scale across Egypt's industrial sector with support for 500+ monitoring units.
- Designed and implemented a sophisticated 5-tier hierarchical Role-Based Access Control (RBAC) system managing permissions across national, governorate, city, corporate group, and facility levels.
- Built a functional prototype unit integrating multiple environmental sensors with real-time data processing and industrial compliance reporting modules.
- Developed scalable full-stack architecture using Django backend and React frontend to support nationwide deployment for environmental monitoring and regulatory compliance.

**Bareeq** | *Full Stack E-commerce*                                              Feb 2024 – Apr 2024

- Developed a B2C e-commerce marketplace for handmade crafts featuring multi-level category hierarchy (3 main categories with nested subcategories).
- Implemented custom Cash-on-Delivery (COD) payment integration tailored for Egyptian market requirements.
- Built comprehensive administrative dashboard with dynamic category management, real-time inventory tracking, and automated invoice generation.
- Delivered fully functional platform with optimized Django backend and responsive UI, meeting all client specifications.

## Education

**Bachelor of Computer Science**                                                 2020 – 2024
*Faculty of Computers and Information, Suez University*

## Skills

**Programming Languages**: Python, JavaScript (ES6+), SQL (MySQL/PostgreSQL)
**Frontend Development**: React.js, Vue.js, HTML5, CSS, Responsive Design, UI Development
**Backend Development**: Django, Django Rest Framework (DRF), Flask, RESTful APIs, ORM, WebSockets
**Databases**: PostgreSQL, MySQL, SQLite, Database Management, Database Modeling, Database Schemas
**Tools & Infrastructure**: Git, GitHub, Postman, AI-assisted coding workflows (Cursor, Windsurf)
**Core Competencies**: Security (CORS, CSRF, JWT), Agile, Data Structures, Troubleshoot, Analytical Thinking, Collaboration, Willingness to learn

## Certificates

Cisco Cybersecurity • Python Data Structures • Web Development Challenger

## Languages

**Arabic**: Native Proficiency
**English**: Professional Working Proficiency