

# AHMED ABDELMONEIM KOTB

Computer Science Student — Software Engineering | Full Stack Developer | Seeking Internship

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## PROFESSIONAL SUMMARY

- Computer Science student specializing in **Software Engineering** at AASTMT, Alexandria — seeking an internship to apply skills in real-world projects.
- Proficient across the **full stack**: C/Assembly at systems level; Java OOP with design patterns (Singleton, Proxy, Observer, Strategy); full-stack web with **React, Node.js, PHP**; JavaFX desktop apps with socket programming; **Oracle/MySQL** database design.
- Practical, publicly documented **web application security assessment** work — an independent pentest lab and a rooted HackTheBox write-up — alongside software testing, SDLC, Agile, AI prompt engineering, data structures, algorithms, and **Linux/Kali/Wireshark** cybersecurity.

## EDUCATION

- **Bachelor's Degree in Software Engineering** (Expected 2027)
- Arab Academy for Science, Technology & Maritime Transport (AASTMT), Alexandria, Egypt | Feb 2024 – Present
- **GPA**: 3.85/4.0

## TECHNICAL SKILLS

- **Languages**: C, Java, JavaScript, Python, PHP, Kotlin, SQL, Assembly
- **Frontend**: HTML5, CSS3, React, JavaFX, Bootstrap, Responsive Design
- **Backend / Databases**: Node.js, Express, PHP, MySQL, Oracle SQL, MongoDB, REST APIs
- **Security & OS**: Linux, Kali Linux, Ubuntu, Wireshark, Web App Security Assessment, Cybersecurity
- **AI & Cloud**: AI Prompt Engineering, AWS AI Practitioner, AWS PartyRock, Python (NumPy, Pandas, Matplotlib)
- **Engineering & Tools**: OOP, Design Patterns, SDLC, Agile, UML, ERD, Testing, Git, GitHub, VS Code, IntelliJ, MS Project

## SOFT SKILLS

- **Problem Solving • Teamwork • Analytical Thinking • Self-Learning • Communication • Time Management • Adaptability**

## FREELANCE PRACTICE

- Two freelance services backed by published project work — **Web Application Security Assessments** and **responsive bilingual landing-page builds**, listed on Kafeel and Nafezly.

## PROJECTS

### Web Development

- **DentalShark** | React.js, HTML5, CSS3, JS, Kotlin, Android, JavaFX, Node/Express, MongoDB — Dental marketplace built 4 ways — React, HTML/JS, Android, JavaFX desktop — sharing one Node/Express + MongoDB backend, using 10 GoF design patterns.
- **DentalShark AI** | AWS PartyRock — AI-powered dental equipment marketplace assistant using large language models.
- **DA Motors** | HTML5, CSS3, JS — Automotive showroom: 8 car pages, wishlist feature, responsive UI.
- **Orchard Rush** | HTML5, CSS3, JS — Bilingual (EN/AR) basket-catching arcade game with mood-reactive backgrounds.

### Security

- **Horus Byte** | Node.js, Express, MySQL, Kali Linux — Vulnerable + fully remediated pentest training lab, with a formal report and exploitation walkthrough.
- **HTB — Cap Write-up** | HackTheBox, Linux — Rooted machine write-up: IDOR → cleartext FTP creds → SSH password reuse → cap\_setuid privilege escalation.

### AI & Python

- **ParrotBooks** | React, JavaFX, SRS/Requirements Engineering — Course project (CSE3101): full SRS deliverable plus a React frontend and a JavaFX client.

### Java & OOP

- **Kotb Chat** | Java, JavaFX, Sockets — Multithreaded TCP chat app with dark/light GUI and session management.

## CERTIFICATIONS & TRAINING

- **AWS AI Practitioner** — Udacity, May 3, 2026
- **AI & Prompt Engineering Scholarship** — ICTHub Egypt, May 5, 2026
- **NTI AI Ambassadors** — National Telecommunication Institute — Completed (certificate pending)
- **Penetration Testing & Application Security** — National Telecommunication Institute — In progress
- **Angular Development** — Information Technology Institute — In progress

## LANGUAGES

- **Arabic**: Native | **English**: B2 Upper-Intermediate