

# AHMED ABDELMONEIM KOTB

Computer Science Student — Software Engineering | Full Stack Developer | Seeking Internship  
+20 120 272 2191 | [Email](#) | [Facebook](#) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | Alexandria, Egypt

## PROFESSIONAL SUMMARY

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- **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.
- Skilled in **software testing, SDLC, Agile**, AI prompt engineering, data structures, algorithms, and **Linux/Kali/Wireshark** cybersecurity.

## EDUCATION

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

## TECHNICAL SKILLS

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- **Languages**: C, Java, JavaScript, Python, PHP, Kotlin, SQL, Assembly
- **Frontend**: HTML5, CSS3, React, JavaFX, Responsive Design
- **Backend / Databases**: Node.js, PHP, MySQL, Oracle SQL, REST APIs
- **Security & OS**: Linux, Kali Linux, Ubuntu, Wireshark, 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
- **Currently Learning**: Advanced React, Docker, Cloud, Open Source

## SOFT SKILLS

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

## PROJECTS

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### Web Development

- **DentalShark** | **React.js, HTML5, CSS3, JS, Kotlin, Android, Figma** — Dental marketplace in 3 versions: HTML/CSS/JS site, React web app. Android mobile app. Figma UI prototype. [GitHub](#) [Live Demo](#) [Figma](#)
- **DentalShark AI** | **AWS PartyRock** — AI-powered dental equipment assistant using large language models on AWS PartyRock. [Live App](#)
- **DA Motors** | **HTML5, CSS3, JS** — Automotive showroom: 8 car pages, wishlist feature, responsive UI. [GitHub](#) [Live Demo](#)
- **Physics Game** | **HTML5, JS, jsPDF** — Thermodynamics simulator: 5 topics, real-time engine, PDF export. [GitHub](#) [Live Demo](#)

### AI & Python

- **4-Queens Problem** | **Python, NumPy, Pandas, Matplotlib** — Solved using recursive DFS. Visualized with chessboard plots, heatmaps and scatter plots. [GitHub](#)
- **K-Means Clustering** | **Python, NumPy, Pandas, Matplotlib** — Unsupervised ML implemented from scratch. Visualized cluster formation across iterations. [GitHub](#)

### Java & OOP

- **Kotb Chat** | **Java, JavaFX, Sockets** — Multithreaded TCP chat app with dark/light GUI and session management. [GitHub](#)
- **DigitalStream Ltd** | **Java** — Audience segmentation admin using Singleton, Proxy, Observer patterns. [GitHub](#)
- **Library System** | **Java, Strategy** — Library management with books, members, Strategy-pattern fine calculation. [GitHub](#)

### Software Engineering

- **Software Testing** | **Manual Testing, Excel** — 35 test cases + 25 bug reports on AcademyBugs.com across 4 modules. [GitHub](#)
- **Project Management** | **PMBOK, MS Project, Agile** — Full PMBOK lifecycle. [GitHub](#).

### Systems, Networks & SWE

- **Assembly ALU** | **MARIE, CircuitVerse** — 13 assembly programs + 4-bit ALU simulation.
- **Network Design** | **Cisco Packet Tracer** — Enterprise topology with routing, subnetting, IP configuration.
- **UML Portfolio** | **UML, SDLC** — 7 UML diagram types for Note App & Library System.

## CERTIFICATION

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- **AWS AI Practitioner** — Udacity, May 3, 2026 | [View Certificate](#)

## LANGUAGES

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