

AIETHEL AMGAD

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Objective

Computer Science graduate majoring in Software Engineering with a strong foundation in frontend development, currently enrolled in a specialized React Developer course through DEPI. Seeking a junior front-end or full-stack development role where I can apply my academic background, hands-on project experience, and skills in React.js, JavaScript, Node.js, and Git to build scalable and user-friendly web applications.

Education

Bachelor of Science in Computer Science | AASTMT Sep 2021 – Feb 2025

Major: Software Engineering | Minor: Multimedia and Computer Graphics | GPA: 3.5/4.0

High School Diploma | Sidi Gaber Language School 2008 - 2021

Experience

Trainee in Database Fundamentals & Java Aug 2024 – Sep 2024

Integrated Solutions for Ports (ISFP) Alexandria, Egypt

- Optimized relational databases using SQL/PL/SQL, executing 50+ queries per session and boosting performance by 30% on 10,000+ records via indexing and query optimization. Designed 5+ database views, reducing redundant operations by 40%, and developed normalized schemas for 30% improved query efficiency across 10+ tables.
- Debugged Java applications integrated with MySQL, cutting response times by 20% and enhancing application stability.

Trainee in Artificial Intelligence Jul 2024 – Aug 2024

Universitat Autònoma de Barcelona (UAB) Bellaterra, Spain

- Selected for the prestigious MILID Summer School (top 50 participants), gaining hands-on exposure to advanced research at ALBA Synchrotron (particle acceleration, X-ray imaging) and analyzing 20+ biological/geological specimens at Museu de Ciències Naturals de Barcelona.
- Observed 5+ AI-driven automation projects at UPC (robotic perception, motion planning, AI-powered self-learning) and attended 10+ AI research discussions with experts, gaining insights into emerging AI/ML/robotics technologies.
- Conducted AI object detection analysis on 5+ machine learning models, evaluating precision, recall, and robustness across 50+ real-world test images.

Courses

Software Development - React Frontend Web Developer Jun 2025 – Present

Digital Egypt Pioneers Initiative (DEPI) Alexandria, Egypt

- Learning responsive web application development with React.js, JavaScript, and TypeScript, utilizing HTML5/CSS3 for front-end design and UX/UI principles. Proficient in Git/GitHub for version control and exploring prompt engineering for AI-enhanced development.
- Progressing into Node.js/Express.js backend development, including unit testing, code style, and documentation. Future topics include Docker/Kubernetes containerization and a full-stack capstone project.

Skills

- Management
- Communication
- Learning new technologies quickly
- Team collaboration
- Problem solving

Languages

- Arabic:** C2 (Native)
- English:** B1 (Intermediate)
- Turkish:** A2 (Basic)
- French:** A1 (Basic)

Technical Skills

- Programming Languages:** Python, Java, C, JavaScript, HTML, CSS
- Web Technologies:** React.js, Node.js, Express.js, HTML, CSS
- Databases:** MySQL, SQL, PL/SQL
- Software Development:** Agile, OOP, Design Patterns, UML, Git, GitHub, Unit Testing, Docker, Kubernetes
- Machine Learning & AI:** Scikit-Learn, TensorFlow, Prompt Engineering
- Networking & Security:** Cisco Packet Tracer, Wireshark, BurpSuite
- Development Tools:** VS Code, IntelliJ IDEA, VirtualBox, Ubuntu, Trello
- UI/UX & Multimedia Design:** Gamma, Canva, MS PowerPoint, Adobe Premiere Pro, Adobe Illustrator, Adobe Photoshop, Blender

Projects

AI-Powered Voice Assistant using ESP32-S3, Graduation Project | AAST Sep 2024 – Feb 2025

- Developed a customizable AI voice assistant leveraging ESP32-S3 microcontroller, integrating Google Speech-to-Text, Text-to-Speech, and AI APIs. Optimized for limited resources, achieving 90%+ command recognition accuracy.
- Designed the initial framework for an open-source solution, with scalability plans to integrate 10+ smart home and IoT device protocols in future iterations.

Extra-Curricular Activities

Member in Interact Club of Alexandria Golden Riders Oct 2018 – Sep 2022

Community Service Organization – Rotary International Youth Program Alexandria, Egypt

- Managed marketing and donor relations for 6 fundraising events, generating 50+ volunteer hours and exceeding donation goals by 15%. Drove attendee engagement by 20% through pre-event communications, supporting community service programs.
- Collaborated with 5+ cross-functional teams across Interact/Rotary Clubs to promote social responsibility and expand outreach. Gained hands-on experience in event coordination, teamwork, and community engagement through 20+ direct volunteer activities.