

Mohamed Wael Abdelaziz

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Professional Experience

Full-Stack Developer – Full Time

Sept 2024 - Current

OVARC

Cairo, Egypt

- Built and maintained full-stack features across multiple concurrent projects, shipping responsive Next.js and React web apps plus React Native apps to the App Store and Google Play, backed by Node.js/Express APIs and scalable architecture.
- Acted as lead frontend developer and main reviewer for pull requests, verifying code quality and consistency.
- Developing cross platform mobile applications, extending product reach to iOS and Android users.
- Architected cloud infrastructure using AWS (ECS, Amplify), and Cloudflare for containerized deployments and CI/CD pipelines.
- Designed and implemented Stripe payment flow, supporting various payment methods to streamline the checkout experience.
- Collaborated with backend engineers to optimize RESTful API integration, data handling, and system performance.
- Migrated legacy CRA setup to Vite, reducing memory usage from 25% to 16% and modernizing the build pipeline.
- Mentored frontend interns and ran junior technical hiring, from coding challenges to React and problem-solving interviews.

Teaching Assist – Part Time

Oct 2024 – Jan 2025

Arab Academy for Science, Technology and Maritime Transport

Giza, Egypt

- Assisted in grading assignments, exams, and reports, maintaining detailed records for over 100 students.
- Prepared lecture materials and created additional resources as quizzes or practice exercises to reinforce their learning.

Embedded Systems On Chip Summer – Training

July 2023 – Sept 2023

Virginia Tech

Virginia, USA

- Implemented Systems on a Chip (SoC) solutions, focusing on hardware and scheduling to help in optimizing the performance.

Data Analyst – Intern

July 2023 – Aug 2023

National Telecom Regulatory Authority of Egypt (NTRA)

Giza, Egypt

- Used Power BI and Dimension Modelling to visualize data and provide clearer insights for better business decision making.

Education

Bachelor of Science degree in Computer Science (GPA 3.95 *First in Class*)

2020 – 2024

Arab Academy for Science, Technology and Maritime Transport

Giza, Egypt

Achieved Certificate of Appreciation for Academic Excellence for the 1st, 3rd, 4th, and 8th Semesters.

Skills

- TypeScript | JavaScript | React.js | React Native | Next.js | Node | Express | MySQL | Git | Linux | Java | Python | Tailwind CSS
- Full-Stack | Frontend | Backend | OOP | AWS | RESTful APIs | Generative AI | Figma | Selenium Testing

Projects

Smart Tutoring System (Graduation Project)

- Developed a system with 3 Generative AI tools: Text-to-Motion Generation, Arabic Text Generation, and Animating Metahuman.
- Implemented Text-to-Motion Generation using VAE and Diffusion models in PyTorch, producing corresponding motion for a meshed human character based on textual descriptions, which improved the diversity score to 9.720 ± 0.082 .
- Project was accepted for funding by the ITAC Graduation Project Support Program.

Health Assistant Web Application

- Developed a web app with Mental and Physical Health Assistants to diagnose user symptoms by asking a series of questions.
- Flask RESTful APIs process the data and generate predictions using a trained SVM model, delivering personalized health insights.

Activities

Senior AI Member at INVNT Robotics Club

Sept 2023 – June 2024

Arab Academy for Science, Technology and Maritime Transport

Giza, Egypt

- Contributed to the development of a robot utilizing stereo vision for motion and navigation.
- Gave theoretical and hands-on experience on computer vision and supervised machine learning for students.

Volunteered for the "Artificial Intelligence and Online Games" AAST's Booth

Feb 2024

Bibliotheca Alexandria

Alexandria, Egypt

- Assisted applicants with their application and inquiries about the artificial intelligence and machine learning fields.