

# Nada Mohamed Abdelaal - Software Engineer

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## EDUCATION

### University of Northampton, UK

Completed Bachelor's Degree in Computer Science - Minor Software Engineering 2023

GPA 3.82 - Ranked 2nd on class.

Graduated with excellence with honors.

Certificates of academic excellence for 2 semesters.

### The Arab Academy of Science and Technology and Maritime Transport

Completed Bachelor's Degree in Computer Science - Minor Software Engineering

### Graduation Project (HLPR) – AI-Powered Brain-Controlled Assistive System

- Developed a brain-controlled headset using NeuroSky EEG technology to enable car operation via brain signals for individuals with disabilities.
- Integrated AI for real-time obstacle detection and navigation, ensuring safe autonomous driving.
- Designed a companion assistive app for system control and monitoring.

## TRAININGS

### NTRA

Cyber Security Workshop

### National Technology Institute (NTI)

Web Design

### IBM SkillsBuild

Web Design Fundamentals

### Information Technology Institute (ITI)

Flutter and web devlopment Red Hat

Linux

## SKILLS

C# | Python | HTML | CSS | PHP | Javascript | R | Figma | Illustrator | C/C++ | Linux | SQL | Object-oriented programming | HTML and XML | Front-end development | Code development | Software development life cycle (SDLC) | Software design | JIRA | Database programming | UX design principles | Software Diagrams | Selenium

## PROFESSIONAL EXPERIENCE

### Teaching Assistant

October, 2023 - Current

Arab Academy of Science and Technology SV , Egypt

- Assisted in teaching courses such as Database Systems, Introduction to Computing, Programming Languages, Discrete Structures, Web Programming, and Problem-Solving.
- Facilitated lectures, created and graded assignments, and provided one-on-one support to students.
- Developed and delivered supplementary materials to enhance learning and understanding of course content

### UI/UX Designer/ Front - End developer

Nov, 2023 - Dec, 2023

Vultara, United States - Remotely

- Developed responsive designs to ensure optimal performance on various devices and platforms.
- Presented UX designs and solutions to senior staff, evangelizing for user-centric design decisions.
- Utilized Angular, HTML, CSS, and JavaScript to create visually appealing and responsive web pages that met client requirements.

### Graphic Designer

2018 - 2021

Fiverr.com, Freelancing

## PROJECTS

### Python

- Assembly Language Assembler
- Electric Circuit Simulator
- Intelligent connect four games using AI techniques
- Diagnosis of acute leukemia using Digital Image Processing techniques
- Decryption and encryption using AES standard system
- News Agency Management System

### C#

- Art gallery management system + SQL
- Virtual Aquarium Simulator + Unity Game Engine

### Figma

- Blood donation app UI Design
- Music app UI Design
- Food waste prevention app
- Online Banking App
- Online Cinema Tickets Website

### HTML/CSS/PHP/Javascript

- University website (Ugetemi)
- Detecting Heart disease, smoking, and bicycling relationship.

## LANGUAGES

English - Proficient  
Arabic - Native