

# AbdelRahman AbdelFattah

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## Skills

**Proficient** C/C++, TypeScript/JavaScript, CSS, HTML, Git, Python, React.

**Moderate** Java, Svelte, Kotlin, Swift, REST, GraphQL, SQL, Go, Shell(Bash/Zsh), Linux, Docker, Kubernetes.

## Work Experience

### Dell Technologies

Cairo, Egypt

#### Software Engineering Intern

Feb 2023 - Feb 2024

- Created React components and Go micro-service that checks if a search term is in the database or not, and then displays a component if not found and allows the user to call the micro-service to add the term to the database to collect info about that term.
- Created a JavaScript module that allows the user to export a report of the current webpage as a PDF file or a PPTX file.
- Reimplemented a React component to make it more modular and reduced the component from 1900 lines to 415 lines using DRY, and other clean code approaches.
- Benchmarked different technologies using Bash scripts, and with the results it allowed production pipelines' performance to increase by a factor of 300%, decreasing the time of the pipelines from an average of 12 mins down to 4 mins.
- Upgraded deprecated libraries and packages allowed the team to use new features and improve the developer experience, lessen the number of bugs, and offer more flexibility to create better products.

### AV Group

Alexandria, Egypt

#### IT Specialist

Sep 2021 - Feb 2023

- Created a file-checking Python script that reads a list of files and folders from a PDF and validates whether they exist, saving up to 30 hours of manual checking.
- Automation of repetitive tasks, such as checking and validating files, creating backups, scheduling checkups, and installation of software using Python.
- Established a RAID 10 Windows Server, with a Sophos Firewall, with an availability of 99%.

### The Sparks Foundation

Singapore

#### Web Developer

July 2022 - Aug 2022

- Created a website using Svelte to create a basic banking system, utilizing PostgreSQL hosted on Supabase, with the ability to create transactions with validation from one customer to another. [Link](#)
- A payment gateway using RazorPay and a clean and simple user interface built with Bootstrap that provides a way to mimic a donation website. [Link](#)

### Information Technology Institute (ITI)

Alexandria, Egypt

#### Winter Trainee

Feb 2022 - Feb 2022

- Created Multiple iOS demo apps using Swift and UIKit.

## Projects

### Connect 4 with AI

[Link](#)

- Developed a Connect 4 desktop game using Python, with an AI opponent.
- Implemented MiniMax algorithm with a tree of a preferred max depth of K=5 to act as the AI opponent.
- Improved MiniMax using alpha-beta pruning to increase its speed by 2,000% at a depth of K=6, and 600% at a depth of K=5.
- Designed a friendly GUI using PyGame that lets the player choose which type of MiniMax algorithm they want, and the depth of the algorithm (K).

### REST Countries API

[Link](#)

- Solved a challenge found on [frontendmentor.io](#) to create a website that shows all the countries of the world and their information.
- Took advantage of RESTful API calls to "https://restcountries.com/v2/all" to get data, and cache them to use for search.
- Reverse-engineered the design given using React and created components for each design element.

### TicTacToe

[Link](#)

- Designed a traditional TicTacToe game that can be played against an AI or in a 2-player mode.
- Implemented the minimax algorithm with various degrees of difficulty to allow the player to choose the depth of the search tree of the AI.

## Certifications

2022 **Advanced Android Kotlin Development, egFWD**

[Certificate](#)

2022 **AWS Academy Cloud Foundations, Amazon Web Services (AWS)**

[Certificate](#)

## Education

**Alexandria University**

Alexandria, Egypt

**B. Sc. in Computer and Systems Engineering**