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.
- Established a RAID 10 Windows Server, with a Sophos Firewall, with an availability of 99%.

Projects

Connect 4 with AI

Github 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.

Achievements

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