Safa Yousif

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TECHNICAL SKILLS

Languages: Java, JavaScript, PHP, HTML/CSS, SQL (Postgres), Python, C, C++
Frameworks: React, Node, Flask, FastAPI, Selenium, Bootstrap, Android Studio
Developer Tools: Ubuntu Server, Git, Docker, Nginx, Google Cloud Platform

EDUCATION

BSc (Hons) Software Engineering — Aug. 2021 – July 2024
University of Nottingham, Honours Second Class Upper — *Semenyih, MY*

Diploma in Computer Programming and Electrical Engineering — Aug. 2018 – May 2021
Manipal International University, GPA 3.4 — *Nilai, MY*

EXPERIENCE

Full-Stack Developer Intern — June 2023 – Aug. 2023
WildTechAlert, Management and Ecology of Malaysian Elephants(MEME) — *Semenyih, MY*

- Led the development of backend architecture using Node.js technologies, ensuring robust and scalable performance. Created FastAPI for communication with handheld device.
- Designed and implemented a comprehensive PostgreSQL database schema tailored to project requirements, facilitating efficient data management and retrieval.
- Leveraged Figma to design a user-friendly website featuring real-time detection alerts and interactive functionalities, enhancing user interaction and overall satisfaction. Played a role in frontend implementation.

React Website Developer Intern — June 2022 – Oct. 2022
RNS Group — *Cyberjaya, MY*

- Introduced features for the product website, leveraging React, Node.js, and MongoDB, enhancing functionality.
- Executed optimizations to reduce page load times, resulting in a smoother user experience and improved website performance.
- Demonstrated leadership skills by supervising an intern and conducting demonstrations for on services like Twilio and Weavy, contributing to skill development and project efficiency.

Flutter Mobile Developer Intern — Feb. 2021 – Aug. 2021
Trivex — *Cyberjaya, MY*

- Solely developed a versatile Flutter mobile application compatible with both Android and iOS platforms, showcasing proficiency in cross-platform development.
- Engineered a tablet application utilizing Android Studio, Firebase, and Java, demonstrating adaptability across diverse development environments.
- Utilized Adobe InDesign and Figma to design intuitive and visually appealing mobile applications, contributing to the overall user experience.

ACHIEVEMENTS

sCPD High Achiever Award University Nottingham 2023 *Top 20 Achievers* — Nov. 2023
Computer Science Society *Vice President* — Aug. 2022 – Aug. 2023
Best Industry Project — April 2023
Odyssey Hackfest *Top 5 Finalist* — Oct. 2022
Nott-A-Code Hackathon *Top 10 Finalist* — Feb. 2022

PROJECTS

MOBILE DEVELOPMENT

Sign Language Translation App | *Android Studio, Python, TensorFlow, Firebase* Link ↗   May. 2023 – Apr. 2024
- Spearheaded the training and integration of a TensorFlow Lite model into a self-designed mobile application for recognition of sign language gestures in order to increase communication between deaf and speaking.
- Received positive feedback from users during acceptance testing for the application's intuitive interface and accurate gesture recognition, contributing to increased user satisfaction. 83% overall accuracy rating.

CAMP Music Player | *Android Studio* Link ↗   Oct. 2023 – Jan. 2024
- Implemented key features allowing seamless music playback, playlist creation, and content browsing.
- Conducted in-depth research to understand and developed a robust playlist system.

FULL STACK DEVELOPMENT

Project Website | *React, Node.js, Google Analytics* Link ↗   Feb. 2024 – Apr. 2024
- Conceptualized and constructed a website to server as a hub to showcase my portfolio of projects.
- Implemented Google Analytics to track user interactions, providing valuable insights into visitor traffic.

Domain Tester Website | *React, Node.js, External Rest API* Link ↗   Aug. 2023 – Sep. 2023
- Designed an interactive platform where users can check the availability of several domains.
- Implemented a robust rest API to identify domain availability.

DATA VISUALISATION

Exploring Hospital Transparency in the USA | *R, Shiny* Link ↗   Sep. 2022 – Apr. 2023
- Developed an interactive platform to present transparent hospital data, empowering users to explore and analyze critical metrics with ease.
- Leveraging tools and techniques to address complexities inherent in healthcare data when performing cleaning and preprocessing.

PUBLICATIONS

WildTechAlert: Deep Learning Models for Real-Time Detection of Elephant Presence Using Bioacoustics in an Early Warning System to Support Human-Elephant Coexistence
Contributing Author, Springer   May 2024

Design and Development of an IOT based Plant Growth Monitoring and Management System for indoor farming
Author, Malaysian Journal of Science and Advanced Technology   July 2021

CERTIFICATES AND LICENSES

Docker Essentials: A Developer Introduction *IBM*   Feb. 2024
Pandas *Kaggle*   Dec. 2023
Advanced Google Analytics Certificate *Google*   Jul. 2020

REFERENCES

Choi Nang Ng *Global Head of Data Engineering & Site Lead of ISI Emerging Markets Group*
Contact: https://www.linkedin.com/in/choi-nang-ng-ab3b1139

Dr. Doreen Sim *Machine Learning Researcher & Assistant Professor of Nottingham University Malaysia*
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