

# Safa Yousif

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## TECHNICAL SKILLS

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**Languages:** C/C++, Python, PHP, Java, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI, Android Studio, Bootstrap

**Developer Tools:** Ubuntu Server, Git, Docker, Nginx, Google Cloud Platform, Oracle Cloud, cPanel

**Libraries:** Pandas, PyTorch, TensorFlow, NumPy, Matplotlib, PyQt

## EDUCATION

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### BSc (Hons) Software Engineering

*University of Nottingham, Honours Second Class Upper*

Aug. 2021 – July 2024

*Semenyih, MY*

### Diploma in Computer Programming and Electrical Engineering

*Manipal International University, GPA 3.4*

Aug. 2018 – May 2021

*Nilai, MY*

## EXPERIENCE

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### Full-Stack Developer Intern

*WildTechAlert, Management and Ecology of Malaysian Elephants(MEME)*

June 2023 – Aug. 2023

*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

*RNS Group*

June 2022 – Oct. 2022

*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

*Trivex*

Feb. 2021 – Aug. 2021

*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

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**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


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### MACHINE LEARNING



**Sign Language Translation App** | *Android Studio, Python, TensorFlow, OpenCV, Firebase* Sep. 2022 – Apr. 2023

- 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.


## MOBILE DEVELOPMENT

- CAMP Music Player** | *Android Studio* [Link](#)  Sep. 2022 – Apr. 2023
- 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](#)  Sep. 2022 – Apr. 2023
- 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](#)  Sep. 2022 – Apr. 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

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**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

Under peer review

**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

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<b>Cybersecurity Essentials</b> <i>Cisco Networking Academy</i>	Feb. 2024
<b>Docker Essentials: A Developer Introduction</b> <i>IBM</i>	Feb. 2024
<b>React (Intermediate) Certificate</b> <i>HackerRank</i>	Jan. 2024
<b>Pandas</b> <i>Kaggle</i>	Dec. 2023
<b>Advanced Google Analytics Certificate</b> <i>Google</i>	Jul. 2020

## REFERENCES

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**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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