**Christian Joseph | +65 86464807 |** [**chris281502@gmail.com**](mailto:chris281502@gmail.com)

**LinkedIn**: <https://www.linkedin.com/in/christian-joseph-997a2a221/>

**Personal Website**: [https://cjosephpersonalwebsite.vercel.app](https://cjosephpersonalwebsite.vercel.app/)

A person in a black suit

Description automatically generated**PROFILE**

Electrical & Electronics Engineering graduate from Nanyang Technological University with a strong interest for IT and software development. Specializing in front-end engineering, with hands-on experiences building websites and cross platform mobile application. Proficient in React, JavaScript, HTML/CSS. Currently seeking for full-time IT or website development opportunities in Singapore.

**education**

**Nanyang Technological University, Singapore** 2020-2024

Bachelor of Engineering (B.Eng.) in Electrical and Electronics Engineering (EEE)

Graduated with Honors (Distinction)

[**[Transcript File]**](https://cjosephpersonalwebsite.vercel.app/official_transcript.pdf)

**Relevant Coursework:** Website Application Design, Data Structures and Algorithms, Data Mining and Artificial Intelligence

**WORK experience**

**Rolls Royce Singapore Pte Ltd, Singapore** Jan 2023-May 2023

**Power Electronics Engineer (Internship)**

* Evaluated solid state power controllers’ performances and conducted electrical parameters testing for power systems.
* Programmed microcontrollers to control pulse sequences for SSPC testing.
* Analyzed switching behaviors and optimized power flow to reduce electrical losses.

[[Internship Certificate]](https://cjosephpersonalwebsite.vercel.app/PI_Certificate.pdf)

**academic projects**

**Final Year Project, NTU – Machine Learning for Radar Imaging**

* Designed and Trained Convolutional Neural Network models (TensorFlow/Keras) to estimate wall thickness and material type from radar simulation data.
* Achieved >90% accuracy on wall parameters regression tasks.
* Automated pre-processing pipelines using Python and NumPy.
* Project Report: [FYP Final Report](https://cjosephpersonalwebsite.vercel.app/FYP_Christian.pdf)

**Web Application Design Project – Full Stack Website**

* Built a full-stack website prototype with user authentication, dynamic shopping cart, and real time order tracking.
* Built using HTML, CSS, JavaScript, PHP, and MySQL with session-based login and database integration to manage user accounts and order data.
* GitHub: [Website Repository](https://github.com/cjoseph001/food-ordering-web)
* Live Demo: [Website Preview](http://fooddash-web.infinityfreeapp.com/)

**Design & Innovation Project – Smart Mobile Application**

* Developed a cross-platform mobile app for calculating electrical circuit values with step-by-step solutions, built with Flutter and Dart, and optimized for iOS devices.
* Designed user interface in Figma and implemented interactive features for electrical engineering learning.
* GitHub: [App Repository](https://github.com/cjoseph001/circuit_analysis_mobile_app)
* Live Demo: [App Preview (on Web)](https://circuitanalysismobileapp.vercel.app/)

**Personal Projects Portfolio:** [https://cjosephpersonalwebsite.vercel.app](https://cjosephpersonalwebsite.vercel.app/)

**skills**

* Programming languages: JavaScript, Python, C, PHP
* Web App Development: HTML5, CSS3, ReactJS, Flutter, Tailwind CSS
* Database: MySQL, SQL
* Machine Learning: TensorFlow, NumPy, pandas, Keras
* Tools: Figma, Git, GitHub, Visual Studio Code
* Hardware & Testing: Oscilloscopes, Multimeters, Microcontrollers
* Microsoft Office: Excel, Word, PowerPoint

**CERTIFICATIONS**

* Cloud Computing by Duke University (Coursera)
* Building Web Applications in PHP by University of Michigan (Coursera)
* Building Database Applications in PHP by University of Michigan (Coursera)
* JavaScript, jQuery, JSON by University of Michigan (Coursera)

**EXTRACURRICULAR ACTIVITIES**

**Project Officer, Pelajar Indonesia NTU (2022)**

* Planned and organized orientation activities for new Indonesian students at Nanyang Technological University, Singapore.

**Member, NTU Chess Club (2023)**

* Participated in weekly training sessions; enhanced critical thinking and focus.

**ADDITIONAL INFORMATION**

* Languages: English (Fluent), Indonesian (Native)
* Hobbies: Strength training, Sport, Chess