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## PROFILE

Electrical & Electronics Engineering graduate from Nanyang Technological University with a strong passion for AI & web/software engineering, particularly front-end development. Experienced in building responsive, user-centric web and mobile applications using HTML, CSS, JavaScript, and modern frameworks such as React and Tailwind CSS. Skilled in both frontend design and back-end integration. Currently seeking full-time software or web 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)

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

**Transcript File:** [\[Transcript PDF\]](#)

## WORK EXPERIENCE

### Rolls Royce Singapore Pte Ltd, Singapore

Jan 2023-May 2023

#### Power Electronics Engineer (Internship)

- Evaluated performances of solid-state power controllers and conducted electrical parameters testing for power systems.
- Programmed controllers to automate SSPC testing procedures.
- Interpreted measurement results to identify performance trends and optimize testing workflows.

**Internship Certificate:** [\[Certificate PDF\]](#)

## PROJECTS

### University Projects

#### Final Year Project – 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:** [\[FYP Final Report\]](#)

#### Web Application Design Project – Full Stack Food Ordering Website

- Built a full-stack website prototype with user authentication, dynamic shopping cart, real time order tracking and an admin page for order management.
- Built using HTML, CSS, JavaScript, PHP, and MySQL with session-based login and database integration to manage user accounts and order data.
- GitHub:** [\[Website Repository\]](#)
- Link:** [\[Website Preview\]](#)

#### Design & Innovation Project – Circuit Analysis Mobile Application

- Developed a cross-platform mobile app for calculating electrical circuit values with step-by-step, MathTeX-rendered solutions to display complex mathematical equations and symbols in the app interface.
- Built with Flutter and Dart, and optimized for iOS devices.
- Designed UI in Figma and implemented interactive features for electrical engineering learning.
- GitHub:** [\[App Repository\]](#)
- Link:** [\[App Preview on Web\]](#)

### Personal Projects:

## **Personal Portfolio Website**

- Built a responsive personal website using React and Tailwind CSS, deployed via Vercel.
- Showcases personal projects in detail.
- Link: <https://cjosephpersonalwebsite.vercel.app>

## **E-Commerce Shop Prototype (Frontend)**

- Developed a modern frontend for an e-commerce site using Next.js, React, Tailwind CSS, including user-facing UI and admin dashboard.
- Implemented product browsing, filtering, sorting, and dynamic shopping cart functionality for users.
- Built a responsive and user-friendly admin dashboard for managing products.
- Integrated with MySQL backend via Supabase for real-time product database management.
- GitHub: [\[Website Repository\]](#)
- Live: [\[User Interface Preview\]](#)
- Video: [\[Full Admin & UI Demo\]](#)

## **MyFitnessBuddy – Full-Stack Fitness Tracker App**

- Developed a full-stack fitness tracking platform using React (with Vite), Node.js/Express, MySQL, and Tailwind CSS.
- Enabled users to log workouts, create and use workout templates, track sessions, analyze exercise performances and workout trends through interactive dashboards.
- Implemented user authentication, detailed exercise insights, and responsive UI for seamless experience.
- GitHub: [\[Website Repository\]](#)
- Live: [\[Website Preview\]](#)
- Video: [\[App Demo\]](#)

## **SKILLS**

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- Frontend Development: React, Next.js, Tailwind CSS, HTML, CSS, JavaScript, Bootstrap, Flutter
- Backend & Database: Node.js, Express, MySQL, PHP
- Tools: Git, VSCode, Figma
- Data / Machine Learning: Python, TensorFlow, NumPy, pandas, Keras

## **CERTIFICATIONS**

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- 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)

## **ADDITIONAL INFORMATION**

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