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## PROFILE

Electrical & Electronics Engineering graduate from Nanyang Technological University with a strong passion for AI & 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 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:** [\[PI Certificate\]](#)

## 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, 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:** [\[Website Repository\]](#)
- **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 clearly in the 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 both academic and personal projects in detail.
- **Link:** <https://cjosephpersonalwebsite.vercel.app>

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

- Developed a modern e-commerce prototype using Next.js, React, Tailwind CSS, and MySQL with Supabase.
- Implemented product browsing, category and brand filtering, sorting, and cart management features.
- Built an authenticated admin dashboard to add, modify, and delete products on the shop.
- **GitHub:** [\[Website Repository\]](#)
- **Live:** [\[Website Preview\]](#)
- **Video:** [\[Admin & UI Demo\]](#)

### 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 & muscle insights, and responsive UI for seamless experience.
- **GitHub:** [\[Website Repository\]](#)
- **Live:** [\[Website Preview\]](#)
- **Video:** [\[App Demo\]](#)

### SKILLS

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- Programming languages: JavaScript, Python, C, PHP
- Frontend Development: HTML5, CSS3, ReactJS, Next.js, Tailwind CSS, Bootstrap
- Backend & Database: Node.js, Express, MySQL
- Machine Learning: TensorFlow, NumPy, pandas, Keras
- Tools: Figma, GitHub, Visual Studio Code

### 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