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PROFILE

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

EDUCATION

Nanyang Technological University, Singapore 2020-2024
Bachelor of Engineering (B.Eng.) in Electrical and Electronics Engineering (EEE)
Graduated with Honours (Distinction)

SMAK 6 Penabur High School, Jakarta, Indonesia 2017-2020

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.

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.

Design & Innovation Project – Smart Mobile Application

- Led a team of 5 to develop a cross-platform educational app using Flutter and Dart.
- Designed user interface in Figma and implemented interactive features for electrical engineering topics.
- Won 1st place in the Design and Innovation Project (DIP) course competition in NTU for mobile app category.

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.

SKILLS

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

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, Get Together Day 2022, Pelajar Indonesia NTU (PINTU)

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

Member, NTU Chess Club

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

ADDITIONAL INFORMATION

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