Nicholas Gandhi Peradidjaya

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EDUCATION

Singapore University of Technology and Design   **Sep 20 to Present**
- Bachelor of Engineering (Computer Science and Design), Honours
- Focus track: Software Engineering
- Expected Date of graduate: Apr 2024

WORK EXPERIENCES

AEM Singapore Pte. Ltd.   **Aug 22 to Dec 22**
Software Intern
- Developed a Web UI with ReactJS and ExpressJS framework in JavaScript language.
- Involved with basic PLC programming using IEC 61131 language and the use of TwinCAT software.
- Involved in weekly meetings for bug fix and addition of features.

Math Vision Enrichment Centre   **Feb 18 to June 18**
Subject Tutor (Part-time)
- Involved in curriculum planning and the making of practice exams' questions.
- Taught Math and Physics for Secondary School and Junior College level.

ACADEMIC & UROP PROJECTS

PlantTracker Mobile Web App (Link)   **Jan 24 to Feb 24**
- Design and implement a sophisticated mobile web application tailored for real-time monitoring of plant health. Integrate seamless connectivity with Raspberry Pi 4 and sensors to gather vital data for analysis.
- Utilize ReactJS, an innovative JavaScript library, to design a captivating and user-friendly interface.
- Utilize ExpressJS to handle server-side logic, API endpoints, and seamless communication with the frontend.
- Employ PostgreSQL to efficiently store and manage the vast array of data collected from plant monitoring activities.

Platformer Unity Game Project (Link)   **Oct 23 to Oct 23**
- Developed a fast-paced 2D platformer game in Unity, utilizing C# programming language.

Loyalty Program Web App Project (Link)   **Jun 22 to Aug 22**
- Collaborated with a team of five to build a loyalty program web application by utilizing Golang for backend development and JavaScript for frontend UI.
- Implemented comprehensive unit and system testing and utilized SQL to retrieve data from the database.

Online Self Pick-Up Mobile App Project (Link)   **Mar 22 to May 22**
- Collaborated with a team of six to create a mobile application in Android Studio using Java programming language.

Multi-Modal Data Understanding (Vision+Language)   **June 21 to Dec 21**
- Collected dataset from Youtube videos and tabulate it to Excel file.
- Implemented Python machine learning framework, PyTorch and Pandas dataframe for machine learning in determining animals' behaviour and activities.

Self-Initiated Projects (Link)   **Apr 21 to Sep 21**
- Implemented Python OpenCV library to create an aim assist feature in a first-person-shooter game by detecting the enemies as an object and allowing the computer to automatically shoot at it.

Design Thinking Innovation Project (Link)   **Feb 21 to June 21**
- Created a 2-meter-tall musical wall where the users can make their own music composition.
- Developed a python program in Raspberry Pi 4 which utilized various music packages for the audio output.

ADDITIONAL INFORMATION

- Proficient in Java, Python, JavaScript, Golang, NodeJS, ReactJs, SQL, CSS, C#, Excel, Solidworks and HTML5.
- Proficient in English and Bahasa Indonesia (spoken & written)
- Require working Visa.