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
- GPA : 4.17/5.0
- 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

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.

SUTD Undergraduate Research Opportunities Programme (UROP)
Development of AR Robot Tutorials for Teaching Novice Programmers   **June 21 to Oct 21**
- Created challenges and tutorials on a website to improve learning development of students who wish to learn how to code a Thymio robot.
- Created a basic tutorial to Python.

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, CSS, C#, Excel, Solidworks and HTML.
- Proficient in English and Bahasa Indonesia (spoken & written)
- Require working Visa.