Lim **Xuan Hao**

Available for Full-time Job Opportunities from Jan 2022

CONTACT

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ABOUT ME

NUS Computer Engineering Graduate
Highly-motivated and independent problem-solver passionate about solving meaningful challenges

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B.Comp in Computer Engineering
August 2017 to December 2021
cGPA: 4.20/5.00 (2nd Upper Honors)

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)

Student Exchange Program
Aug 2019 to Dec 2019

NANYANG JUNIOR COLLEGE

Jan 2012 to Dec 2014

COURSEWORK

Specialization in Internet Of Things
Wireless Networking
Embedded Hardware System Design
Software Engineering and Object-Oriented Programming

SKILLS

Languages
Fluent: English, Chinese
Intermediate: Korean
Programming languages
Fluent: Python, Javascript
Familiar: C, C++, C#, Java
Query languages
MongoDB, MySQL
Frameworks
NodeJS, ExpressJS, ReactJS, OpenAPI
Hardware
Verilog, Arduino

PROFESSIONAL EXPERIENCE

GOVTECH (SENSORS AND INTERNET OF THINGS)

IoT Engineer Intern | May 2021 to Dec 2021

- Part of the SmartGym Team, and developed features and improvements for the SmartGym ecosystem,
- Key Engineering achievement Developed a prototype system from scratch for tracking a user's dumbbell exercises. Prototyped the hardware mount, implemented repetition counting, exercise detection and weight detection on the Arduino Nano used.
- Fullstack Engineer End-to-end feature development for the SmartGym system, from the IoT gateway to backend and database development.

AUK INDUSTRIES

IoT Engineer Intern | Jun 2020 to Dec 2020

- Responsible for web development, setup and deployment of IoT devices on the ground as well as performing troubleshooting and fault tree analysis
- Worked as a Full-stack Software Engineer and developed an Administrative portal which eases the monitoring and update of the deployed IoT nodes and gateways
- Utilising Google APIs and Pub/Sub services, introduced a feature which eases monitoring of firmware versions of deployed IoT hardware
- Introduced a automated mass setup process for IoT devices through utilising APIs of different services, reducing errors and setup times

NUS SKATING CLUB

Treasurer | September 2018 to September 2019

- Managed the Skating Club's finances and worked with other schools and universities to organise cross-university events

PROJECT SHOWCASE

CG4002 CAPSTONE PROJECT Wearable system

Python

- Worked in a team to build a wearable system that aims to detect dance moves and relative positions of dancers
- Managed communications between the laptops, FPGA, and the evaluation server and handled the data processing as well as the syncing of the data streams from the various dancers

GLORY 2D Action-Platformer Game

Unity, C#

- As part of an NUS Orbital project, built a 2D action-platformer game in Unity
- Was awarded a Honourable Mention for the game

AWARDS

2018 NUS School of Computing's Orbital Honorable Mention (Top 11 out of 211 teams)