Stephen Tan

Github: blackonyyx | HP: +65-85334767
stephentan@u.nus.edu| Eligible for US H1-B1-Singapore (FTA Visa)

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE
BS in Computer Science
Dec 2019-Curr | Singapore, SG
Relevant Coursework:
Software Engineering
Machine Learning
Computer Networking
Database

JURONG JUNIOR COLLEGE
GCSE A-Levels
May 2017 | Singapore, SG
RP: 85 /90

LINKS

Github:// **blackonyyx**
LinkedIn:// **Stephen-Tan**
Instagram:// **@hinkhai**

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Python
Familiar:
Javascript • C • HTML5
MATLAB • Regex • CSS

DATA SCIENCE
Familiar:
Scikit-Learn • PySpark • OpenCV2
Tensorflow • Postgresql • Airflow

CLOUD COMPUTING
Familiar:
Kubernetes • Google Cloud Platform

ADDITIONAL INFO

LANGUAGES
English • Chinese

HOBBIES
Rock Climbing • Running • Instant Noodles

WORK EXPERIENCE

XNERGY AUTONOMOUS POWER TECHNOLOGIES | Software Engineer (Machine Learning)
June 2021 – Current | Singapore, SG
- In progress of developing a end-to-end pipeline for predicting State-of-Health projections for robotic battery health prediction
- Implemented and integrated a encrypted bootloader for protection of proprietary firmware on Micro-Controllers

GIC PRIVATE LIMITED | Data Science Intern
Dec 2020 – May 2021 | Singapore, SG
- Part of the team of data scientists in Internal Audit to build machine learning Models to detect risks and frauds across different business functions
- Performed SQL queries and data pre-processing for use in machine learning
- Identified abnormal or fraudulent trades placed by EQ portfolio managers (PM) and traders through analysis of trading data and external market data using deep learning, feature engineering and explainable AI

NATIONAL UNIVERSITY OF SINGAPORE | Teaching Assistant
Jan 2020 - May 2020 | Singapore, SG
- Taught students to develop medium-scale software programs using object-oriented design principles and advanced programming constructs
- Guided students on Object-Oriented principles, functional programming and the 4 pillars of Java – Encapsulation, Inheritance, Polymorphism and Abstraction

EXTRA-CURRICULAR

ILLUMINATE SINGAPORE | Operations Head
Sept 2019 – Curr | Singapore, SG
- Head of Events for IlluminateSG, a social initiative to provide an open platform for discussion around sensitive topics
- Responsibilities include outreach to other organisations, planning and executing conversation based events with a team
- Successfully organised 4 offline and online events so far, reaching over 350 youth voices, and collaborating with 8 organisations in these events

PROJECTS

YOU PLAY BALL, I PLAY BALL: BAYESIAN MULTI-AGENT REINFORCEMENT LEARNING | 17th STePs
Nov 2020 | Singapore, SG
Winner of the 17th School of Computing Term Project Showcase (STePs) for novelty and effort. Project implemented new functionalities in **stable-baselines** integrating Flipout as a Bayesian Neural Network in tensorflow-probability.

SPACE DEFENDERS | CP2106 Independent Software Development Project
Utilised robust version controlling and development plan to create Space Defenders, a re-imagination of Space Invaders using pygame with 2 Player Mode and a Story Mode. Worked with **Wen Jun Hua**