SAMUEL LEE

www.linkedin.com/in/samuel-lee-si-en/ Contact No: 97814300| Email: samuellee1312@gmail.com

EDUCATION

 	2019 TO PRESENT BACHELOR'S IN COMPUTER SCIENCE NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE
į	• Current CGPA: 3.95/5.00
i I I	2014 - 2017 DIPLOMA WITH MERIT IN BUSINESS INTELLIGENCE AND ANALYTICS
	TEMASEK POLYTECHNIC, SINGAPORE
	• CGPA: 3.83/4

WORK EXPERIENCE

IDEMIA (JAN 2022 – CURRENT) VIDEO ANALYTICS INTERN

Director's List (Academic Year 2015/2016)

TP-VCE Scholarship (2014-2017)

- Develop a computer vision based unattended object detection algorithm for ICA checkpoint & Changi Airport gates.
- Trained a deep neural network model with Pytorch (Resnet 50) to differentiate between right and left thumbs and other fingers for the purpose of fingerprint enrolment in ICA checkpoints & Changi Airport gates.
- Build relevant pipelines for end to end implementation of said algorithms/models for productions utilizing web apps, Triton servers & RTSP Cameras
- Implement Resnet50 Models through Triton Nvidia Inference servers on a Jetson Board.

LTA AUTONOMOUS VEHICLE PROJECT OFFICE (AVPO) | MAY 2021 – AUGUST 2021 ANALYTICS & RESEARCH INTERN

- Built a Tableau dashboard on the autonomous vehicle trials for monitoring and data analytics.
- Extracted important features from autonomous vehicle logs and cleaned them into structured text & csv files using python.
- Developed a teaching material for the Vocational License Department on Advanced Driver Assistance Systems.
- Revise data collection elements that are being used for autonomous vehicle progress checking & incident investigation.

CARE CORNER PROJECT START | MAY 2019 - DEC 2020 PART TIME SOFTWARE AND DATABASE ENGINEER

- Eased staff workflow by automating reports and Excel summaries through VBA.
- Managed and spearheaded a data migration team to transition to a new salesforce database.
- Mapped out and planned the process of data transfer and data organization for a seamless transition.

HITACHI ASIA LTD | JULY 2016 - FEBURARY 2017 RESEARCH INTERN

- Developed a CCTV video analytics application to track a given human or vehicle image.
- Developed the front-end application using Java and the backend algorithms using C++ and Python.
- Extracted and engineered image features using RGB, HSV and Edge methods.
- Performed object detection and image classification using Support Vector Machines.
- Built Haar Classifiers to perform object detection.
- Performed incremental clustering to group similar images.

ACADEMIC & PERSONAL PROJECTS

JANUARY 2021 – CURRENT

CREATED A WEB APPLICATION FOR COLLEGE OF ENGINEERING STAFF TO TRACK STUDENT INFORMATION

- Utilized mySQL databases, ASP.NET and the MVC framework to create a straightforward process to access student data.
- Eased staff workload by allowing users to import excel files containing student data directly to the web application where it transfers the data to the mySQL database.
- Increased efficiency in staff where the application provides query select statements in the form of buttons to extract and view student data from the database.
- Created and taught a tutorial for students hosted by the College of Engineering to teach students on the basics of web hosting, database creation and connecting the two together.

JANUARY 2022

MICROSOFT TEAMS TO TELEGRAM LINK

- Developed an application leveraging computer vision to detect changes/messages on teams and forward the message screenshots to a telegram bot.
- User is then able to reply through the telegram bot which will forward the message to a specific recipient on teams
- Side Feature -> Auto clicker to keep user online on teams

CO-CURRICULAR ACITIVIES

JAMBAND MANAGER

HALL JAMBAND | AUGUST 2020 - CURRENT

- Managed band performances, planning the flow of music, dynamics and event coordination thus successfully performing at multiple live and recorded events.
- Performed as a keyboardist at multiple events.

STUDENT AMBASSADOR

COLLEGE OF ENGINEERING CLUB | AUGUST 2019 – CURRENT

- Managed and ran an NTU college of engineering orientation during the COVID period, observing the safe distancing measures and running the event successfully.
- Spearheaded the planning and execution of a Dell Hackathon. Successfully managed the resources given through budgeting and assisted in the mentoring of a hackathon group.

SKILLS AND CERTIFICATIONS

Languages: Proficient in English and Chinese.

Digital skills: C++, C#, C, Python, MATLAB, Java, Javascript, HTML, R, VBA, Qlikview, Microsoft Office, Tableau

Certifications: Bloomberg Junior Achievement Workplace Mentoring, SAS Predictive Modeler using SAS Enterprise Miner

HOBBIES

Playing Musical Instruments (Guitar, Piano, Keyboard, Drums), Rock Climbing, Ultimate Frisbee and Cliff Diving.