**LI YUXUAN**

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### EDUCATION

**Singapore University of Technology and Design (SUTD) Singapore**

* Bachelor of Computer Science (Information Systems Technology and Design) **May 2018 to Present**
* CGPA 4.56/5.00
* Expected Date of Graduation: August 2021

### Technische Universität Berlin, Global Leadership Programme Berlin, Germany

* Scored 1.3 and 2.0 in Germany grading system (Equivalent to A and A-) in *Innovation and* **Jul 2019 to Sep 2019**

*Entrepreneurship* and *Start-up Crash Course: From Idea to Reality* respectively

* Developed cross cultural communication skills through interaction with students from over 15 countries in class in a daily basis.
* Developed own start-up idea and pitched in front of five real investors in Berlin.

### WORK EXPERIENCES

**Musiio Singapore**

**Backend Engineer and AI Intern May 2019 to Jul 2019**

* Led a project of building a sales dashboard for the sales team in Musiio to view daily clients’ messages and statistics and reply messages via emails.
* Backend development of the sales dashboard using Python Flask and SQL Alchemy.
* Designed a web scraping program that obtains over 30,000 songs’ metadata from streaming services API such as Spotify, YouTube, etc. to facilitate the training of the AI algorithm. The program was designed to be run using Kubernetes Engines in multiple containers with the integration of Google PubSub to process the data.

### COMPETITION

**JunctionX Hackathon Singapore 2019 Singapore**

**AR Pixel Arts mobile application Sep 2019**

* Developed an AR mobile application using Unity, Vuforia AR Engine and Google Firebase. Users can scan the markers placed in MRT stations to display a communal pixel canvas on which they can draw pictures using the pixels they collected.
* Won second prize in the Rakuten AR/VR category.

### PROJECTS & ACTIVITIES

**Asia Pacific Youth Exchange Bangkok, Thailand**

**Team Leader Jan 2019**

* Spearheaded a team of 6 in a social entrepreneurship project in Bangkok. Developed a packaging product that helped boost the economy of a small village in Bangkok called Baan Rang Jik through sustainable tourism.
* Final pitch performed in the United Nations Conference Centre in Bangkok and emerged as one of the top five teams.

**Viewer Robot | 10.009 Digital World 1D Project Singapore**

**Team Leader Feb 2019 to May 2019**

* Spearheaded a team of 4 to build a laptop application that serves as a dashboard for the user to monitor the robot.
* The application was written in Python using Kivy library. Features include skin detection using CV, data storage in Google Firebase, facial recognition using pre-built weights from online resources, filter faces captured by dates of capture, remote control of robot’s movement via Google Firebase, real-time camera streaming of what the robot “sees” from the desktop application.

### IEEE SUTD Student Branch Inventory Loaning System Singapore

**Individual Project May 2019**

* Created an inventory loaning system using Python Flask and Google Firebase to help the IEEE Exco manage inventory and promote loaning among members.
* Features include adding new members, adding or updating inventory and additional information, loaning inventory and auto email generation, email reminders and return inventory and reset functions.

### Python Web Spider for Music Metadata Singapore

**Internship Project May 2019 - July 2019**

* Designed a web spider in Python that search in Spotify and YouTube for songs’ metadata and output results in CSV files
* Automated the web spider in docker container and used Google PubSub and Kubernetes for cluster processing.
* Used Python libraries such as Selenium, BeautifulSoup4, YouTube-dl, etc.

### Smart Calendar Android Application using Google Android Studio Singapore

**School Team Project Sep 2019 - Dec 2019**

* Programmed using Android Studio in java to create a smart calendar APP that used OCR technology from Google Cloud Vision API to create calendar events from a photo taken.
* Used OOP programming language java and Android Studio.

### CO-CURRICULUM

### Singapore Fujian Overseas Students Association (SFOSA) Singapore

**President Dec 2017 to Present**

* Led Executive Committee members to organize cultural events for members in the SFOSA, to bring a sense of belonging to those who are far away from their home in Singapore.
* Successfully organized Chinese New Year celebrations, Mid-autumn festivals, etc. with collaboration with the Chin Kang Huay Kuan organization in Singapore.

### IEEE SUTD Student Branch Singapore

**President Nov 2018 to Nov 2019**

* Led a team of 7 Executive Committee members to organize various workshops, projects and events for members to participate and gain knowledge and skills while promoting a healthy community spirit within the club whereby students were able to help each other in need.
* Successfully organized the IEEExtreme Competition in Singapore region with a total participation of 27 IEEE student members.
* Conducted workshops to teach members about basic Artificial Neural Networks, Raspberry Pi with Google Firebase to create simple IoT projects, as well as Python Kivy to create application.

### IEEE-HKN SUTD (Eta Kappa Nu) Singapore

**Member Oct 2018 to Present**

* Organised workshops and events to help SUTD students with their ongoing projects involving skills such as Arduino, Raspberry Pi, Python, soldering, Google Firebase, Linux commands, etc.

### ADDITIONAL INFORMATION

* Experienced in Python, Java, C, JavaScript programming language
* Experienced in NodeJS, HTML, CSS and JavaScript for web development
* Experienced in C# (Unity), Python Flask web development, Google Android Studio – Android app development
* Experienced in Google Firebase, Docker, Python Kivy app development, Raspberry Pi IoT
* Experienced in using Adobe tools such as Photoshop, Illustrator, After Effect, Premiere Pro, Audition, Lightroom
* Some experience in doing machine learning using Python – TensorFlow, Keras, Scikit-learn, numpy, pandas, openCV
* Some experience in using Kubernetes, Google PubSub
* Comfortable working in Unix/Linux and Windows environment
* Fluent in both English and Mandarin (spoken & written)
* Enjoy music composition, piano and singing. (YouTube channel: <https://www.youtube.com/channel/UCAAVhCgvUfiamjQWyErtBDA>)
* Enjoy travelling. Travelled in China, Germany, France, Italy, Singapore, Thailand.