

PERSONAL DETAILS

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EDUCATION

Singapore University of Technology and Design

Focus Track: Information Systems Technology and Design

Expected Date of Graduation: September 2020

Singapore
May 17 to Present

ZheJiang University

China

SUTD ASEAN Leadership Programme,

Under Temasek Foundation International LEARN Scholarship

HangZhou,

May 18 to Aug 18

- Mentored by Dr Zhang KeJun of ZheJiang University to develop an iPhone application eBook reader called eMello that employs machine learning and natural language processing to integrate instrumental music into children's books.
- eMello was submitted for the China Mobile Application Innovation Contest 2018 and placed top 30 out of more than 200 groups.

WORKING EXPERIENCE

Saleswhale Internship

May 19 to Oct 19

- Backend development on a Ruby on Rails stack, building multiple new features and writing RESTful API endpoints for both internal and external facing tools.
- Worked partially on frontend development involving NodeJS and EmberJS, implementing new components and fixing bugs that directly affected customers.

CO-CURRICULAR ACTIVITIES

Vice-President of SUTD IEEE Student Body

2017 to 2018

- Leading and developing over 105 IEEE Student members to utilise electronics and microcontrollers to take part in projects, social initiatives and outreach programs.
- Organised and assisted in conducting Arduino workshops for various Junior Colleges to use Arduino HC-05 Bluetooth module to control microprocessors from external applications in a 2.5-hour long workshop which received positive feedback from both students and teachers.

ACADEMIC PROJECTS

Cryptocurrency Clone Vulnerability

Oct 18 to Oct 19

- Research project involving using the Simian code clone detection tool to detect and map existing vulnerabilities in Bitcoin to various cryptocurrencies.

Common Vulnerabilities and exposures (CVE) extensions

- Applied and obtained extensions for 4 different CVEs (CVE-2018-17144, CVE-2019-7167, CVE-2016-10724, CVE-2016-10725)
- Extensions can be found at <https://github.com/JinBean/CVE-Extension>

Accenture Web Application Project

Feb 19 to May 19

- Designed and built a help ticket management system that allowed users to submit tickets, and allowed administrators to sort, manage, and resolve tickets.
- Features included ticket tracking, live chat, and account management for users and administrator accounts. The backend was built on Flask and MongoDB.
- Our project was chosen as the Best Accenture Ticketing System project out of 18 participating groups.

Glimpse – Public Space Project**Oct 18 to Dec 18**

- Solution to imperfect information regarding usage of public spaces. Uses computer vision (OpenCV) to detect and count the number of people using each public space, and the count is uploaded to an online database.
- Created an android mobile application granting the public access to information on the database. The app also provides information about the space such as booking rates and opening hours.
- This was implemented in various spaces in SUTD as a proof of concept.

SKILLS

- Proficient in Python, Ruby and Java, worked on projects using C# and Lucid
- Experienced in Arduino, Mojo FPGA, Raspberry Pi, sensors and Bluetooth modules
- Worked with Unity – Augmented Reality and Android Studio on personal projects
- Skilled in Adobe Experience Design CC and Illustrator