Jason Chow Chee Sin

Email: jason.chowcs@gmail.com | LinkedIn: https://www.linkedin.com/in/jason-chow-chee-sin/

Mobile: 92969734 | GitHub: https://github.com/slimechips

EDUCATION

Singapore University of Technology & Design (2nd Year, Date of Graduation: Aug 2021) **May 18 to Present**

- Bachelor of Engineering (Information Systems Technology and Design), Honours

Hwa Chong Institution (GCE A Levels) **Jan 10 to Dec 15**

Work Experience

Data Entry Clerk at College of Insurance **Feb 16 to Apr 16**

- Digitalised old records of students by performing data entry work

Combat Medic at Singapore Armed Forces Combat Engineers **May 16 to Feb 18**

- Platoon Medic for Field Engineer Unit, took care of medical needs of platoon and helped out with their work

Software Developer Intern at GovTech Singapore (National Digital Identity) **May 19 to Sep 19**

- Coded digital-signing web app, complete with front-end(Angular) and back-end(NodeJS/Express) microservices.
- Deployed applications on AWS, also containerised(Docker) microservices and deployed to Kubernetes.
- Maintained applications running on Linux (Ubuntu Server) instances, using Nginx servers on AWS cloud
- Oversaw DevOps work (CI/CD, Documentation) for the project, and also provided support to corporate partners.

ACADEMIC PROJECTS

Android Sports App **Sep 18 to Dec 18**

- Led a team of 5 and designed an Android game (Native Android) that combines the elements of physical running and drawing, to encourage phone-users to adopt a healthier lifestyle, while being able to have fun at the same time.
- Also created a physical sports-wearable to improve comfort and convenience of runner

Whack-a-Mole Game **Sep 19 to Dec 19**

- Team of 5 created a Whack-a-Mole arcade game, procuring and assembling the materials and components ourselves
- Game was programmed from the ground-up using logic gates and a CPU architecture that we designed ourselves

Android University Lifestyle App **Sep 19 to Dec 19**

- Team of 6 created an Android app for university students to find others who share similar interests
- Used machine learning algorithms(sklearn) to recommend interests to users based on past activities
- Integrated app with backend Python Flask server and SQLite database to store interests and events

RESEARCH & EXTERNAL PROJECTS

Love your Living Environment (LYLE) Challenge with South-West CDC **Jul 18 to Present**

- Collaborated with South-West CDC, NEA, PA and MND, to tackle the littering problem in Boon Lay, through publicity posters, spreading awareness, and obtaining feedback from residents through focused group discussions
- Project obtained $10,000 in funding.

VR Simulation of Water Processing Facility (VVater) with iTrust Research Centre **Sep 18 to Sep 19**

- Designed and coded a VR (Oculus Rift) experience to simulate the environment of a water processing facility, to demonstrate to and educate users how to respond to attacks on the plant facility.
- Held live demonstrations several times a month with visitor groups and foreign VIPs (e.g. Chilean President)
- Project won Best Innovation Award at SUTD's annual Research Fest.

Cancer Undergraduate Research Project **Feb 19 to Present**

- Performed research on needs on cancer patients, included primary research in overseas countries like China
- Worked on developing a mobile application, using Natural Language Processing to scrape through journals and make recommendations to users

F10 Fintech Hackathon by F10, PwC, Julius Baer and mBank **Sep 19 to Sep 19**

- Created an admin web platform for Julius Baer bank relationship managers, automatically generating reports and newsfeeds personalised on the customer using machine learning, along with a web organiser for customer events.

Build-On Singapore by AWS, GovTech and NUS **Sep 19 to Sep 19**

- Designed virtual voice assistant using Amazon Lex and voice recognition, that could perform digital services such as automatic form-filling using personal data collected from the government, complete with voice authentication.
- Prototype achieved 3rd Runner-up.

Citi Social Hackathon by Citi **Sep 19 to Sep 19**

- Working together with 3 other teams, my team developed a web application for social organisations to recruit volunteers for their events. I was responsible for the back-end (NodeJS/Express) for my team's part of the application.

iNTUition v6.0 Hackathon by NTU IEEE **Oct 19 to Oct 19**

- Created a Chrome extension (Perspective-Bot) running on Microsoft Azure, that broadens netizens' knowledge and views on trending topics, by scraping through the internet for different perspectives and geographical statistics. Information was then processed using Natural Language Processing (NLP) and clustering, then visualised to the user.
- Prototype was awarded Best Cloud-based Hack.

Geolocation Tracker Research Project **Oct 19 to Present**

- Created geo-trackers that used triangulation to locate each other, potentially for use in fire-fighting scenarios or military operations
- Used Arduino Pro Mini chips together with sensors as part of the trackers, programmed with C++

Blockchain Workshop Attendee **Jan 20 to Jan 20**

- Attended a blockchain workshop to familiarise myself with blockchain concepts
- Tried out simple blockchain programming for sample projects like a confession page and a voting system

CO-CIRRICULAR ACTIVITES

Sensorium Vale (Film and Media Society) Member **May 18 to Present**

- Directed, filmed and edited ~5min videos (Premiere Pro) shown for school events like orientation.
- Planned and organised community service project with Pertapis Children's Home, to allow more than 20 less-privileged children to learn videography.

Game Design Club Member **May 18 to Present**

- Coded and designed a scrolling shooter game from scratch in a period of 2 months, using Unity and C#.
- Made AR puzzle games, using Unity and Vuforia, for Valentine's Day to expose students & members of public to AR.
- Mentored a group for their game design project, as part of a 8-week workshop.

House Guardians (Hall Master) **Jun 18 to Present**

- Took care of the welfare and issues of more than 40 residents on my level.
- Coordinated with Office of Student Life to organise frequent hall events for both my floor and the entire residential community of around 1000, to enrich life for residents through interest-based events and theme-based blockbusters

Uni-Y Volunteer **Jun 18 to Present**

- Planned, coordinated and facilitated ongoing events for over 40 mentally-disabled clients at YMCA Singapore.

Rotaract Club Volunteer **Aug 18 to Present**

- Taught children from less-privileged families technical skills such as block programming and electronics

University Orientation Programmes Planner **Oct 18 to May 19**

- Planned, designed and facilitated games for upcoming 2019 SUTD Freshmen Orientation
- Worked together with logistics to create and fun, memorable and exciting experience for freshmen

3DC (Google Developer Student Club) Exco **Oct 19 to Present**

- Planned project workshop sessions for university students to embark on interesting projects guided by mentors
- By myself, I organised and taught a 3-session workshop to teach Android Development to students that were new to programming, using self-prepared material and lab activities

Project Mingalabaar (Overseas Service Learning) **Dec 19 to Jan 20**

- Embarked on Youth Expedition Trip(YEP) to Myanmar, where my team and I volunteered in a village
- Planned, handled the logistics of and taught lessons for village children at YMCA Community Centre in Maubin
- Constructed roads for the village to ease transportation for villagers
- Designed and set up a water-filtration system in the village so that the villagers could drink clean water

OTHER RELEVANT TECHNICAL EXPERIENCE/SKILLS

- Extra Coding experience from side projects (HTML, CSS, Javascript, C++, Python, mySQL, Shell Scripting)
- Basic Machine Learning & Deep Learning understanding (Jupyter Notebooks, Google Cloud, Keras, NLP)
- Linux Systems, Web/Cloud Infrastructure, Public Key Infrastructure, Raspberry Pi, Ubuntu Server, Nginx, Terraform