

Elston Tan

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EDUCATION

Singapore Polytechnic

Diploma in Applied AI and Analytics

Apr. 2022 – Present

CCAs: Muay Thai, SPAI (Singapore Polytechnic Artificial Intelligence), SEED (Infocomm)

Positions: SPAI (Administrative Committee), SEED (Subcommittee)

Current GPA: 3.83

Bukit View Secondary School

GCSE 'O' Levels

Jan. 2018 – Dec 2021

CCA: National Cadet Corps (Command Sergeant Major)

L1R4: 8

L1R5: 11

EXPERIENCE

Intern

Sep 2022 – Present

*A*STAR (Agency for Science, Technology and Research)*

Institute of Infocomm Research

- Developed, tested and analysed two methods of detecting blurred images to solve one of the problems in the main project as one of the two interns
- Cleaned and modified datasets for testing and training purposes (e.g. gaussian blurring images, reformatting images)
- Researched different edge operators for development of feature engineering paired Support Vector Machine model for classification
- Tested various configurations/developments of Convolutional Neural Networks for optimized performance in this problem (e.g. MobileNetV2)
- Made detailed reports on developments in research every week and presented report to supervisor (worked with numbers and graphs)

Intern

Nov 2021 – Mar 2022

ClassDo

- ClassDo is an online learner-centred classroom designed for participatory and personalised learning
- Supported the Customer Success Team in an emerging Ed-Tech Startup as one of the two new interns
- Did webscraping on over 100 websites, scraping crucial information and transferring them to an excel sheet for other teams
- Helped with tech support, assisting users with difficulties using the website
- Created product demonstration videos for users to learn about different functionalities of the website
- Wrote self-help articles on the official website for users having difficulties with the varying tools

Overall In Charge

March 2022 – Present

BuildingBlocs

- Partnered with Google, AISG, MOE, and many more, BuildingBlocs is a growing organization that seeks to spread computing literacy and the love for programming
- Oversaw BuildingBlocs 2022 as 1 of the 3 OICs with the online March Conference and the physical 3-day June Conference
- Modified the code for the official BuildingBlocs website in accordance to ongoing events and conferences
- Managed the recruitment of organisers, separation of roles and responsibilities, email group for broadcast emails and onboarding of new organisers for 2022

March Conference 2022

- Managed speakers for different workshops, conducted dry-runs, logistics and coordination for the different workshops
- Coordinated with the publicity team on the posting of publicity materials like posters and advertisements
- Managed the registration of participants, emails for participants regarding confirmation and workshop details, handling of queries and onboarding of participants

June Conference 2022

- Oversaw the 3-day physical event at NUS School of Computing
- Managed the seating plan and teams of participants and setup the venues

PROJECTS

SwordTale | *Python, discordpy, asyncio*

- * Developed a multiplayer RPG game on Discord using asyncio, discordpy and FileMonster, a module I made for storing huge data into one compact file
- * Released the game to BuildingBlocs Discord server and maintained/updated the game regularly for about 2 months for over 125 people to playtest
- * Talked about the asynchronous combat system implemented in the code that was hard to find anywhere else and my experience of maintaining the game as one of the speakers of PyconSG 2021
- * Worked on the project with the help of two JC year 2 students and a University lecturer

Pathfinding-With-RL | *Git, Reinforcement Learning, Numpy, matplotlib, Seaborn*

- * Developed a course on codedamn, an online website that teaches programming interactively, for millions of people to learn something new
- * The course teaches reinforcement learning by solving a pathfinding problem using q-learning
- * Made as a part of Hacktoberfest 2022 contribution

TECHNICAL SKILLS

Languages: Python, C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: Flask, Node.js, Bootstrap, , Express, MongoDB

Developer Tools: Git, Docker, Github, Google Cloud Platform, VS Code, PyCharm

Libraries: pandas, NumPy, Matplotlib, Seaborn, Tensorflow, Pytorch, sklearn