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EDUCATION

Nanyang Technological University, Singapore   Aug 2020 – Nov 2023
Bachelor of Engineering (Computer Science)

Temasek Polytechnic, Singapore   Apr 2014 – Apr 2017
Diploma in Computer Engineering

TECHNICAL SKILLS

- Programming: C#, C++, Dart, HTML & CSS, Java, PHP, Python, ReactJS, SQL, TypeScript
- Technologies: .NET, Apache, Flutter, Git, jQuery, MySQL, NodeJS, PostgreSQL, Redis, REST APIs, Socket.IO

INTERNSHIP EXPERIENCE

FoodLine.SG   May 2022 – Dec 2022
Full Stack Developer, Intern
Technologies used: HTML & CSS, Javascript, jQuery, MySQL, NodeJS, PHP, Redis, REST APIs, Socket.IO

- Built software for funds transfer from the company's bank accounts via FAST/Remittance as well as to receive notification for incoming payments.
- Improved subscription functionality to allow manual charging of customers through previous payment methods.
- General improvements to the website for both customers and staff including a multitude of optimisations for the existing codebase.

A*STAR I2R   Apr 2016 – Sep 2016
Software Developer/Researcher, Intern
Technologies used: HTML & CSS, Java, Javascript, jQuery, MySQL, REST APIs, Spring Framework, Websockets

- Collaborated with 2 other developers to optimise call quality, speed and services massively over previous versions of the service
- Improved efficiency of JavaScript code on client's website to significantly reduce initial load times
- Created and maintained a mySQL database for ease of accessibility for archived chat logs and video recordings
- Converted web application code into a Java library for implementation for the Android application development

PERSONAL PROJECTS

NotCafeDownloader
Designed and wrote a CLI aggregate manga downloader with site specific features.
- Implemented publicly available APIs and a web scraper to retrieve information for image downloading
- Constructed an expandable system where extensions for additional websites can be created and integrated seamlessly
- Utilised python's asynchronous tools to allow simultaneous image downloading to hasten download sessions
- Reverse engineered website JavaScript to include features not readily available for public developers
- Ensured operational readiness by writing plentiful unit tests which are run before publishing

BuldogPlaysoundBot
Developed a reddit bot that replies with a corresponding sound file given a command
- Built a web scraper to pull several pages periodically to retrieve up to date commands and sound files
- Employed FFMPEG to allow concatenation of multiple sound files and manipulate playback rate

AWARDS

- Hack&Roll 2022 Top 8   2022
- Worked in a group of 4 to develop a game where 2 players can write their own reinforcement learning model for their own moving and shooting character.