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| **JAVEN LAI**  Year 2 Student in Big Data Analytics Profile Passionate Coder interested in any Tech related stuff. LANGUAGES English  Chinese Contact PORTFOLIO  <https://javen05.carrd.co/>  GITHUB:  <https://github.com/Javen05> ACHIEVEMENTS Director’s List Award (AY2022/2023)  Bronze Medal for Poly-ITE Olympiad for Informatics (2023)  SYF Certificate of Recognition – Art Exhibition (2017)  **Edusave Awards:**  EAGLES x1  Academic Achievement Top 25% x2  Academic Achievement x2  Good Progress Award x3 |  | EDUCATIONTemasek Polytechnic *2022 - 2025*  GPA of 4.0 for Year 1   * Distinction for Math and most coding modules   Was in training for ITSSB WorldSkills SG for 2022 Tampines Secondary School *2018 - 2021*  ELR2R2: 17 – 2  CCA: Maker Faire   * Participated in Workshops and Competitions within CCA  WORK EXPERIENCEUPS Warehouse Assistant *Mar 2023 – Apr 2023*  Data Entry using Excel and SAP Hana  Logistics of goods NTUC Grocery Shopper *Oct 2022 – Oct 2022*  Scan, Pick & Pack groceries for online shoppers KrisShop Logistics Assistant *Sep 2022 – Oct 2022*  Logistics for carts Omni Logistics Picker *Feb 2022 – Mar 2022*  Pick goods in a Warehouse NTUC Replenisher *Nov 2022 – Nov 2022*  Replenish frozen food section **SKILLS**  1. **MySQL** for Operational Database and Data Warehouse 2. **Data Preparation** using KNIME, Alteryx, or Python3 3. Supervised & Unsupervised **Machine Learning** 4. **Data Visualization** using PowerBi 5. **React** for Frontend Web Development 6. Using Libraries for Full-Stack Web Dev and Data Science 7. Microsoft Word, PowerPoint & Excel |

Notable Projects:

2023

#### Basic Autoclicker

*A Python* ***script that spam clicks the mouse*** *for the user.*

Features:

* Controlled by Windows **key binds**
* Different speeds available, intervals between each click are staggered at random except for max speed.
* **Script is easily customizable** by the User

Reference:

<https://github.com/Javen05/autoclicker>

#### Data Modelling Project (SCHOOL)

*Build* ***supervised*** *and* ***unsupervised*** *models to help a bicycle rental company improve its business.*

Used:

* **Python3**
* Jupyter Notebook
* Libraries like **numpy, pandas, matplotlib.pyplot, seaborn, scikit-learn**

Includes:

* Business Intelligence
* Data Cleaning and Preparation
* Data Transformation
* **Exploratory Data Analysis**
* **Regression, Classification, Clustering Models**
* Interpreting and **making decisions from model results**

Reference:

<https://github.com/Javen05/Data-Science>

#### Data Warehouse and Business Intelligence Project (SCHOOL, GROUP)

*Designing a* ***star schema*** *for an online retail store’s transaction and used* ***Alteryx*** *to prepare the datasets given in order to load the data into the schema.* ***Using the data warehouse****, I had to analyze the business performance within a country.*

Used:

* **MySQL** (Database)
* Alteryx (ETL Tool, creating visualizations)

Includes:

* Business Intelligence
* Data Cleaning
* **Data Transformation**
* **Data Visualization**
* **Generating data-driven recommendations to business owner**

Reference:

<https://github.com/Javen05/DWBI>

2022

#### Foodie (SCHOOL)

*Restaurant review* ***full-stack website****, where users can find restaurants and leave a review (rating + comment) on each listing only once. The review may be edited and deleted by the user, and other users can like or dislike the review.*

Stack:

* **MySQL** (Database)
* ExpressJS (Backend Framework)
* **React** (Frontend Framework)
* NodeJS (Server)
* ChakraUI (Frontend Library)

Notable Features:

* Reset password using email (**nodemailer** + **OAuth2**)
* **Robust Search** that returns closely similar words too + **Search Recommendation Algorithm**
* **Secured authentication** using JWT and secured server endpoints
* **Fully responsive** across multiple types of devices + Smooth **Animations** + Able to navigate page using tab button
* **Custom-built carousel component** for images

Comments:

* This project received **Distinction grades for all modules involved**
* Received assistance with setting up React and implementing nodemailer + OAuth2 for resetting password

Reference:

<https://github.com/Javen05/Foodie>

#### Data Structures and Algorithm Projects (SCHOOL)

*Using Python3 for* ***data structures*** *and making* ***simple programs****.*

Main Tasks:

* Using turtle module to draw a Chinese word
* Explaining quicksort using diagrams (no code involved) + explaining concepts like time complexity etc.
* Creating Programs with a **menu and functions to do tasks**
* Creating a **guessing game**

Comments:

* Received a **Distinction grade** for this module
* These projects were my **starting point for learning Python3**. Creating the guessing game was the most challenging task in this module, as I spent considerable time testing and patching all known bugs to ensure the game runs flawlessly without crashing or having any bugs. I **spent most of my time** **improving the efficiency and readability of my code** (mostly for the last question for each assignment).

Reference:

<https://github.com/Javen05/DSAG>

#### Music Player App Development (SCHOOL)

*Creating a music player app concept using Adobe XD and building that app using Android Studio + Java (requirement).*

Features Android App:

* Persistent light/dark mode
* Able to play songs, scrubbable seek bar with song duration, shuffle song array order
* Search for a song
* Hardcoded login and songs (all accounts and assets are stored in the app)
* Add and Remove songs from a playlist

Comments:

* Received an **A grade** for App Concept and the actual Android App
* My coding journey started with this project. Due to my coding incompetency, I was not able to build the music app as I planned the app to be in my Adobe XD wireframe.

Reference:

<https://github.com/Javen05/MYSIC>

Hackathons:

2023

#### SUSS Analytics and Visualisation Challenge

Creating a Tableau dashboard to explain how an estimated value for a resale flat in the central area of Singapore can be calculated.

Reference:

<https://github.com/Javen05/Tableau1>

#### Sustainability Innovation Challenge

Create and pitch a product that solves a sustainability issue.

Certification of **Achievement**

**Polytechnic-ITE Olympiad in Informatics (PIOI)**

Competitive programming

Received **Bronze Medal** (4-6 Place)

2021

#### Shell Education NXplorers

Certificate of **Participation**

2020

**Micro:Bit Training - Innovation Garage**

**Workshop** teaching Microbit programming to make designs on a light strip etc.

2019

**Singapore Amazing Flying Machine Competition (SAFMC)**

Certificate of **Participation**

**Drone Swarming DJI Tello EDU - 65DRONES**

**Workshop** teaching how to setup and operate drones.

2018

**Science & Technology Challenge**

Certificate of **Participation**

**Maker Faire Singapore**

**Convention** where my CCA’s projects are displayed to the public, and I helped with running the booth.

Certificate of **Appreciation**