

SAMUEL GOH JUN YU

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EDUCATION

BSc (Hons) Applied Artificial Intelligence GPA: 3.89/5 **Aug 2022 - May 2025 (expected)**
Singapore Institute of Technology

Diploma in Mechanical Engineering (Director Honour Roll AY19/20) **Apr 2017 - Mar 2020**
Singapore Polytechnic

WORK EXPERIENCE

GAC Enterprise - Web Developer (Part-time) **Apr 2023 - Sept 2023**

- Orchestrated the conceptualization, design and implementation of an interactive website
- Utilised frontend/backend frameworks such as React, Bootstrap, Node and Flask for intuitive user interfaces and functionality

AB Sciex Pte Ltd - Product Quality Analyst (Intern) **Mar 2019 - Aug 2019**

- Utilised advanced excel functionalities and implemented automation techniques using VBA
 - Utilising Tableau, Excel to generate visualisation tools to create insightful representations
 - Demonstrated strong communication skills by presenting findings to key stakeholders
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RELEVANT PROJECTS

Multilingual Speech and Language Evaluation (NLP Project) **Ongoing**

- Utilized NLTK, TensorFlow, and PyTorch for data preprocessing, model development and evaluation
- Implemented OpenAI's Whisper model for speech recognition and natural language processing, **achieving 95% accuracy** in transcription.

Smart Proctoring (Computer Vision Project)

- Implemented object detection using YOLO algorithm for real-time identification
- Utilized OpenCV for image processing and established IoT connectivity using MQTT protocol
- Employed PyTorch for fine-tuning models and enhancing accuracy in object recognition tasks

HDB Resale Price Predictor (Machine Learning Project)

- Conducted data preprocessing, feature extraction and exploratory data analysis to prepare dataset for modelling
- Implemented ML algorithms and various evaluation metrics to assess predictive models

SG-Karmart (Database Project)

- Developed RESTful APIs using Flask framework to enable communication between the database and front-end applications.
- Leveraged NoSQL Firebase for real-time data synchronization with web applications
- Designed database schema using MySQL and used Google Cloud Platform for web-hosting

Hotel Review Analysis (Python Project)

- Utilized XGBoost algorithm for sentiment analysis classification
 - Employed ML techniques to optimize hyperparameters and maximize model's accuracy
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ADDITIONAL INFORMATION

Certificates: AI Singapore - Foundations In AI

Technical Skills: NLTK, Machine Learning, Java, C, Python, NoSQL, SQL, Database Management & design, Deep Learning, Google Cloud, Azure, Hadoop, Tensorflow, Data Analysis, VBA