

# SAMUEL GOH JUN YU

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## EDUCATION

### BSc (Hons) Applied Artificial Intelligence

Aug 2022 - Apr 2025 (Expected)

Singapore Institute of Technology

### Diploma in Mechanical Engineering (Director Honour Roll AY19/20)

Apr 2017 - Mar 2020

Singapore Polytechnic

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## WORK EXPERIENCE

### economy-v1 - Full Stack Developer (Part-time Contract)

Oct 2024 - Present

- Designed and developed a **fully customizable AI chat platform**, enabling seamless integration and interaction with multiple LLMs for early-stage startup scalability
- Built a **dynamic framework for real-time model switching**, allowing users to effortlessly switch between various AI models to meet diverse use cases

### AMD - Product Development Engineer (Intern)

Jul 2024 - Present

- Developed a **data-driven framework** using **Dataiku** to streamline semiconductor test data collection, preparation, and analysis.
- Automated reporting workflows with Python, improving accuracy and reducing manual reporting time by hours to minutes.
- Designed interactive dashboards and visualizations with Streamlit to enable data-driven decision-making for stakeholders

### 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)

- 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

### 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:** Google Professional ML Engineer, AI Singapore - Foundations In AI

**Technical Skills:** Java, C, Python, Ruby, NoSQL, SQL, Deep Learning, Google Cloud, MLOps, Google BigQuery, AutoML, Azure, Hadoop, Tensorflow, Data Analysis, React, Node.js