

GOH YU JIN

Machine Learning Engineer

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20 Jalan Manis, Singapore 329255

27 years old, Singaporean, Male

Machine Learning Engineer with experience in experiment design of computer vision system, seeking a position as a Machine Learning Engineer. I aspire to apply my technical skills and analytical abilities in the business and finance domains through developing solutions to enhance business performance.

WORK EXPERIENCE

Machine Learning Engineer (Computer Vision)

Defence Science Organization (DSO) — Singapore, Singapore

November 2019

Present

- Designed and conducted experiments to enhance the performance of object detection networks, adopting a proactive approach to problem-solving by acquiring a deep comprehension of the data and taking an iterative approach to obtain incremental improvements.
- Collaborated with Software Engineers to optimize data processing pipelines for providing geographical information of videos frames in real time, cross-functional teams and coordinated efforts for project success.
- Successfully created and implemented a reverse image search algorithm, resulting in successful research, development, user acceptance and production.
- Collaborated with Software Engineers to enhance the integrity, accuracy, and reliability of image processing pipelines. This was done to provide location information for video frames in real time.
- Selected to join the Leadership Development Program based on excellent performance track record.
- Demonstrated effective multitasking and time management to fulfill project requirements across 5 concurrent projects.

Computer Vision Image Processing Python C++ OpenCV Pytorch Keras Unreal Engine Blender QGIS

Tech & Data Operational Risk Advisory Intern

Deloitte and Touche LLP — Singapore, Singapore

May 2018

August 2018

- Planned, executed and delivered a data analytics platform using Python, VBA, SQL and Tableau to provide data-driven insights. Empowering the senior management executives of an agricultural conglomerate in making well-informed decisions based on analysis of business models and outcome predictions, which brought \$3+ million in revenue.
- Conducted advisory oversights to evaluate clients' business operations, analyze operational data to identify key insights and provide actionable recommendations to increase profitability in the client's organization.
- Analyzed large amounts of data on large amounts of data to detect anomalous transactions and subsequently propose effective solutions to the client that could potential to generate savings of up to \$1.4 million.

Python MSSQL Tableau VBA Excel Alteryx

EDUCATION

Bachelor of Engineering (Information Systems Technology and Design), Magna Cum Laude Honours

Singapore University of Technology and Design (SUTD) — Singapore, Singapore

May 2016

September 2019

- CGPA : 4.29/ 5.0
- Specialization Tracks : Artificial Intelligence, Business Analytics

Java Python Deep Learning Derivative Pricing and Risk Management Natural Language Processing Probability and Statistics

Android Application Development Artificial Intelligence

Stanford International Honors Program

Stanford University — Palo Alto, California, USA

May 2017

August 2017

- Awarded to top 10% of students with outstanding academic performance who held key leadership roles in school related extra-curriculum activities.

Design and analysis of Algorithms High Performance Computing

Global Exchange Program

University of Twente — Enschede, Overijssel, Netherlands

- Awarded to well-rounded students with outstanding academic performance and exhibited strong leadership traits in student associations.

Machine Learning Data Science Big Data Apache Spark Hadoop

September 2018

February 2019



TEACHING AND MENTORING

Teaching Assistant

SUTD Masters of Science by Security and Design (MSSD)

- Developed content and conducted multiple 2 hour-long workshops for the master students on Java, C++, Tableau, Hadoop, Javascript and Android application development.
- Prepared materials and assisted the lecturer in a 2-week Python programming boot camp for 20+ master students.

May 2017

August 2018

Teaching Assistant

SUTD Academy

- Guided a class of 20 professional consultants from Deloitte and Touche LLP through in-class exercises during the 3-day Foundations of Data Science Course.
- Facilitated a class size of 8 professionals for the 1 day Introduction to Artificial Intelligence Course.
- Developed and delivered comprehensive course materials on Introduction to Artificial Intelligence and Foundations of Data Science, catering to professionals seeking to enhance their skills.

December 2017

January 2018



PUBLICATIONS






T. T. Teoh and **Y. J. Goh**, "Artificial Intelligence in Business Management", Springer

- Highlighted potential applications of artificial intelligence to drive productivity across various different business departments.
- Demonstrated proof-of-concept solutions through solving 20+ Kaggle projects using skills in machine learning, computer vision, natural language processing and time series.

Accepted



AWARDS AND ACHIEVEMENTS

-  **2019** **Top 2 best class projects** in Theory and Practice of Deep Learning, Image Captioning project which was selected to represent SUTD
-  **2018** **ASEM-DUO Exchange Fellowship Award** by Ministry of Foreign Affairs for good performance
-  **2018** **Company Intern of The Week** by Deloitte and Touche for exceptional performance
-  **2018** **Young Leaders Award** by Regional Managing Partner of Deloitte Risk Advisory for exemplifying leadership in organizing interns to put up a performance
-  **2017** **Certificate for Summer Intensive in Computer Science** by Stanford University



SKILLS

Programming

Python Java C/C++ Javascript R HTML5

Visualization

Tableau Power BI

Databases

MongoDB MSSQL MySQL Hadoop

Development Tools

Visual Studio Pycharm Visual Studio Code git.

Office Tools

LaTeX Word Excel PowerPoint



PERSONAL QUALITIES

- Highly disciplined and motivated. Thrives in high-pressure conditions at SUTD and Stanford University by collaborating on time sensitive, challenging projects alongside talented international students.
- Excellent interpersonal and time management skills, demonstrated through the ability to work with many different teams of varying dynamics for multiple concurrent projects.
- Reliable and adaptable, with the capacity to manage timelines and reallocate limited resources when higher priority jobs are received.