Shannon How

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EDUCATION

UNIVERSITY OF SOUTHAMPTON

PhD in Machine Intelligence for Nano-Electronic Devices and Systems

United Kingdom

Sept 2021 - present

NATIONAL UNIVERSITY OF SINGAPORE

Singapore

B.Sc (Hons) in Data Science and Analytics

Aug 2016 - Jun 2020

DELFT UNIVERSITY OF TECHNOLOGY

the Netherlands

Student Exchange Program (SEP) at Faculty of Electrical Engineering, Mathematics and Computer Science

Feb 2019 - Jul 2019

WORK EXPERIENCE

DELOITTE

Singapore

Data Scientist Oct 2020 - Sep 2021 • Researched, surveyed and presented data-centric methods and solutions for financial crime and fraud detection

• Developed interactive dashboards tailored for trade breaks and leveraged insights to formulate strategic recommendations for a Singapore-based FinTech firm.

 Employed advanced machine learning methodologies to identify and analyze malicious network traffic data for a leading Indonesian telecommunications company

ROLLS-ROYCE SINGAPORE PTE LTD

Singapore

Future Intelligence Technologies Intern

Jan 2020 - May 2020

• Contributed to the submission of a paper for Elsevier Knowledge-Based Systems by designing, conducting experiments and analyzing the results to compare feature selection and gradient boosting methods

• Researched existing explainable Artificial Intelligence (AI) methods that can be implemented for engineering purposes

• Developed a method to integrate trust scores with Individual Conditional Expectation plots for machine learning models to determine the confidence and trust of predictions for specific instances

DAVINCI INNOVATION LABS

Singapore

Programming Instructor

May 2018 - Jul 2018

• Taught primary school children programming skills in Python with robots

SKILLS

- Programming Languages: R, Python, SAS, SPSS, MATLAB, Java, SQL, Tableau
- Languages: English (Proficient), Chinese (Proficient), French (Basic)

CO-CURRICULAR ACTIVITIES

NUS BOXING Chairperson

Singapore

Aug 2018 - Jun 2020

- Efficiently lead a group of committee members to manage the operation of the club and training sessions
- Successfully spearheaded and assisted in the planning and execution of events such as Student Life Fair and Exhibition Fight
- Initiated a volunteer outreach program with Glpyh Asia to expose children from lower income families to Boxing

STUDENT COUNCIL Secretary

Singapore Mar 2011 - May 2013

Successfully planned events such as Fundraising, Teachers' day concerts and camps

Administered council meetings and supported the rest of the committee members in their duties

VOLUNTEER EXPERIENCE

• TOUCH Young Arrows

Aug 2017 - Sep 2021

• NUS Overseas Community Involvement Programme in Chiang Mai, Thailand

Mar 2018 - Jul 2018

• Youth Corps Singapore

May 2017 - Jul 2017

ADDITIONAL INFORMATION

- Awarded a Bronze Medal in the Singapore Mathematical Olympiad 2010
- Awarded Edusave Scholarships and Good Progress from 2010 2014
- Awarded the Half-Colours for NUS Boxing in 2020
- Awarded the Best Student Paper at the International Symposium on the Tsetlin Machine in 2023
- Enjoys reading, running, swimming, bouldering and team sports represented the Faculty of Science in soccer and captained the female swimming team in the annual NUS Inter-Faculty Games