# Adam Ilyas

Interests in: Mathematics, Computer Science, Analytics, System Architecture, Biology
Github: adamilyas
9783 6944 | adam_ilyas@mymail.sutd.edu.sg | Singaporean

## Education

| | |
|---|---|
| **Singapore University of Technology and Design** | May 16 to Aug 19 |

Bachelor of Engineering (Engineering Systems and Design), Honours
SUTD Scholarship Holder, Academic Exco

| | |
|---|---|
| | Sep 18 to Dec 18 |
| **Aalto University, Finland** | |

Exchange Studies - Computer Science
SICC Global Exchange Award Recipient (Awarded to only 3 students)
  Computer Vision, Data Mining, Machine Learning, Complex Networks

## WORK EXPERIENCES

**Shopee, Regional Operations Intern**   May 18 to Sep 18
- Automated the maintenance of virtual inventory stock levels in front end warehouse system using Python, SQL (Spark), Task Scheduler (Linux)
- Coordinated with teams from Southeast Asia to ensure smooth operation through analysis of warehouse data and backlogs using Python and SQL

**Haste**, **Backend Developer**   Jan 18 to Apr 18
- Successfully deployed API backend and Database for Applications to be used by clients commercially using the following technology
- Tech: Node.js, Express.js, MySQL workbench, DigitalOcean

**Jewel Paymentech**, **Product Specialist Intern**   May 17 to Sep 17
- Collaborated with Product Manager and Developers to ensure specifications by clients from Singapore, Malaysia and Hong Kong are met
- Ideated product feature using innovative approaches which includes building dashboard prototype

## PROJECTS

**DDoS Monitoring, Detection and Prediction** TATA communications   Feb 19 to Present
Student Consultant
- Building a proactive/ predictive monitoring system using big-data, machine learning and deep learning algorithms by parsing internet traffic data
- Liaised with TATA's strategy and data science experts based overseas to develop a system that will be integrated into their services

**Analysis of Bank Branches** DBS   Jan 18 to Apr 18
Position: Process Improvement and Analyst
- Collaborated with DBS bank to obtain data and insights
- Optimized queues in DBS branch when faced with uncertain demand.
- Tech: Python (Pandas, sklearn, matplotlib), R (data and geospatial visualization)

**Text Mining of Financial reports** Infineon   Sep 17 to Nov 17
Position: Data Analyst
- Analysed and obtained financial insights by automating information retrieval of Financial reports (PDFs) via various algorithms, web scraping and data visualisation using R and Python libraries (Pandas, NLTK, Plot.ly, matplotlib)

**Application Architecture for health-based intervention**   Mar 18 to Apr 18
Position: Full-Stack Developer and System Architect
- Ideated a health-based application using various design methodology
- Designed the system architecture and developed a prototype using React, Node.js and MongoDB

**Data-driven Household Load Sharing system and Interface (IoT)**   Mar 17 to Apr 17
- Optimized a real-time matching algorithm for sharing of household chores
- Deployed backend for efficient data-flow between interface, server and physical appliances using Python, Firebase, Raspberry Pi

## LEADERSHIP AND CO-CURRICULAR ACTIVITIES

**Vietnam Overseas Learning Project - Project Director**                    May 17 to Jan 18
- Led a team of 30 students in a community outreach project to rural Vietnam
- Achieved the best Rotary Overseas Community Project in the Region

**Rotaract@SUTD – Community Service Club - Exco and Camp Director**        May 17 to May 18
- Actively planned and facilitate Science Technology Engineering Math workshops for children from lower-income families
- Designed and executed a science day camp for 50 kids coming from lower income family to nurture interest in learning Science and Technology

**MIT-SUTD Collaboration: 2016 LEAD Program**                              May 16 to Aug 16
- Led a team of students from cultures and nationality from both SUTD and MIT to plan a school wide Independence Day event
- Undergone an eight-week intensive program designed to develop students from both schools into effective leaders and communicators

**University Ambassadors**                                                 Sep 17 to May 18
- Engaged and facilitated guest for various school ceremonies
- Inspired prospective students by sharing school experience
- Ensured smooth operations of events such as SUTD open house

**Sports (Floorball)**
- School Varsity Team, Singapore University Games (2016. 2017)            May 2016 to Present

## TECHNICAL SKILLS

General: Python, R, Java, Scala
Database: SQL, MongoDB, FireBase, MySQL workbench, SparkSQL
Web-development: HTML/JavaScript, Node.js, Express.js, React

## RELEVANT COURSES

- Data/ Business Analytics
- Statistical and Machine Learning
- Algorithmic Methods of Data Mining
- Complex Networks
- Computer Vision
- Statistics
- Optimization
- Programming (Python)
- Introduction to Spatial Analysis, Data Visualization and Map Design