



JANE SEAH

SOFTWARE ENGINEER

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EXPERIENCE



ANALYST

August 2020 to Present

Global Investment Research (Engineering), Goldman Sachs

- Leverage the latest in cloud, mobile and big data technologies to help define and deliver digital investment strategy.
- Enable research analysts to model investment ideas efficiently and accurately, whilst ensuring that clients can access these ideas when, where and how they choose.



JUNIOR DATA SCIENTIST

May to August 2019

INTELLEX (SGInnovate Summation Programme)

- Improved and expedited search results served on Source and Stacks by enhancing INTELLEX's legal knowledge graph.
- Built and integrated machine learning classifiers to automatically categorise legal documents with 90% accuracy into knowledge management system pipeline.
- Learned functional programming in a new language, Clojure, and successfully implemented features and fixed bugs.



CYBER ANALYTICS RESEARCH INTERN

May to August 2018

Information Division, DSO National Laboratories

- Examined Cyber Kill Chain behaviours and conducted statistical analysis on cyber security data to identify anomalies.
- Developed a convolutional neural network to statically detect malicious Windows portable executable files with an accuracy of 98.78% which was integrated into a larger cyber threats detection system.



PROJECTS



BASE LOCATION OPTIMIZATION

Feb-Apr 2019

Fujitsu-SMU Urban Computing and Engineering Corp.
Lab & Singapore Police Force

Awarded Best Performing Team for designing an optimization algorithm which achieved the lowest response failure rates of police cars dispatched to handle incidents for both normal and high demand evaluation cases. Deployed solution as a Flask web app for SCDF to trial.



DATA MINING APPROACH TO THE DETECTION OF SUICIDE IN SOCIAL MEDIA

Aug 2018-Apr 2019

IEEE Big Data 2018 & 2019 Poster Paper

Performed social sensing on digital traces of Singaporeans on Reddit. Applied NLP techniques to discover 14 salient topics often discussed in relation to depression and suicide. Extended research to practical use as a Chrome extension for mood monitoring and content recommendation.



EDUCATION



BACHELOR OF SCIENCE (HONOURS) INFORMATION SYSTEMS & ANALYTICS (ADVANCED TECHNOLOGY)

August 2016 to June 2020

School of Information Systems, Singapore Management University

3.83/4.00 GPA, *summa cum laude*, SMU .Hack Honorary General Secretary, SMU Challenge Deputy Logistics Director
Exeter Summer Programme at the University of Oxford (Machine Learning & Contemporary Political Philosophy, Jul-Aug 2017)
International exchange at the College of Science and Engineering, University of Edinburgh (Sep-Dec 2019)
Part-time teaching assistant and student assistant



ACCOMPLISHMENTS



SKILLS

Programming: Python, Java, Ruby, Clojure, JavaScript
Web Development: Spring, Quarkus, Flask, Django
Cloud Computing: AWS Certified Cloud Practitioner
Machine Learning: TensorFlow, scikit-learn, spaCy, Gensim
Data Science: SQL, Pandas, Numpy, Matplotlib, NoSQL
Others: Apache Kafka, GraphQL



AWARDS & SCHOLARSHIPS

2016 SMU-School of Information Systems Scholarship
2017 Dean's List
2019 YITU Hack-AI-thon Finalist
Dean's List
NES Ground Zero 1st Runner Up
SG:Digital Scholarship
2020 SCDF X IBM Call for Code 1st Prize