JERVIS CHAN JUN YONG

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EDUCATION

Nanyang Technological University, Renaissance Engineering   *CGPA: 4.85/5.0 | Major GPA: 5.0/5.0*
B.S. Computer Science (Minor in Mathematics), M.Sc. Technology Management   *Aug 2018 - May 2022*
- **Coursework:** Data Structures, Algorithms, Object Oriented Programming, Data Science, Artificial Intelligence, Databases, Operating Systems, Software Engineering, Probability and Statistics, Data Analysis with R

National University of Singapore
B.S. Computer Science   *Aug 2020 - Dec 2020*
- **Coursework:** Design and Analysis of Algorithms, Parallel Computing, Information Security, Mathematical Statistics, Financial Time Series Theory and Computation

SKILLS & TECHNOLOGIES

Languages: Python, Java, SQL, R, Javascript, HTML/CSS, C/C++
Web Development: Django, Django-Rest, Angular, React**,** jQuery
Data: Pandas, Numpy, SkLearn, Keras, PyTorch, FastAI**,** Tensorflow, Plotly/Dash, Hadoop, PySpark, Airflow
Databases: MySQL, PostgresSQL, PrestoSQL, SQLite, MongoDB

WORK EXPERIENCE

BMW Group Asia, Data Science Intern   *Sep 2020 - Present*
SHOPEE, Internal Data Product Management Intern   *Jun 2020 – Aug 2020*
- Performed user and similar product research, coming up with requirements, metrics and UI designs for new Data Nexus and Lumos features and releases.
- Created Data Nexus Operations SOP knowledge base for technical problem troubleshooting, saving developer-hours.
- Performed end user support, diagnosing and troubleshooting technical issues related to Nexus and Lumos.
- Conducted user education and migration of Shopee BI reports to Nexus, automating and saving man-hours per report.

ALPHIEN SAS, Quantitative Developer Intern   *Mar 2020 – Jun 2020*
- Developed payout, portfolio and portfolio optimization functions in R for Alphien quantitative library.
- Developed monitor functions and bot scripts to automate report generation and sending of client reports.
- Wireframed Alphien investor portal and portfolio optimization platform with Figma.

AMD, Engineering Intern   *May 2019 – Aug 2019*
- Developed Python and Perl scripts for data processing, cleaning and visualization of test data, aiding test engineers in inference and testing of new product units.
- Developed unsupervised machine learning model to identify, cluster and label defect patterns in silicon wafers, aiding yield engineers with yield analysis and inference.
- Involved in post-silicon development of new product and ran functional tests with advanced GPU test methodologies.

SELECTED PROJECTS AND COMPETITIONS

Bengali.AI Handwritten Grapheme Classification *Python, PyTorch (FastAI)*
- Developed classification model based on EfficientNet with FastAI for the optical character classification of Bengali grapheme elements, achieving top 1% in leaderboard.

Rohde and Schwarz Engineering Competition *Python, XGBoost*
- Tackled problem of predicting 5G bandwidth demand and selecting optimal broadcast frequency by making use of XGBoost coupled with k-fold cross validation techniques, obtaining top in Asia and 6th globally in competition.

Stock Monitoring Application *React, TypeScript, Perspective*
- Built stock monitoring web application to visualise and analyse share price data, providing indicator signals by using correlation between stocks

UBS Quant Hackathon *Python*
- Proposed sector rotation strategy implementation through use of a reinforcement learning algorithm (Proximal Policy Optimization) and trained reinforcement learning agents on custom stock trading environment built on OpenAI's Gym.

SELECTED AWARDS AND ACCOMPLISHMENTS

Kaggle Silver Medal (Ranked 15/2059), Bengali.AI Handwritten Grapheme Classification Competition	*Mar 2020*
Zilliqa Blockchain Developer Bootcamp Scholarship	*Mar 2020*
Finalist, TransferWise Coding Competition	*Jan 2020*
Top 10, Singapore-India Hackathon	*Aug 2019*
Top in Asia, 6th Globally, Rohde and Schwarz Engineering Competition	*May 2019*
1st Runners Up, RE-Hackathon	*Mar 2019*
Renaissance Engineering Programme Scholarship	*Aug 2018*

LEADERSHIP AND CO-CURRICULAR EXPERIENCE

University Delegate, Singapore Fintech Festival	*2018, 2019*
Director of Business Development, Blockchain At NTU	*Aug 2018 – Aug 2019*
Student Outreach Lead, Ethereum Singapore Hackathon	*Nov 2018 – Dec 2018*
Sparrow Translations Team Founder, Tencent Qidian	*Jan 2017 – Dec 2018*