Budi **Ryan**

UNDERGRADUATE STUDENT

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📖 Education

Hong Kong University of Science & Technology
Hong Kong

B.ENG IN COMPUTER ENGINEERING, MINOR IN BIG DATA TECHNOLOGY - GPA: 3.501
Sep. 2014 - Exp. May. 2018

- Highlight courseworks: Big Data Mining & Management, Cloud Computing & Big Data Systems
- Activities & Societies: HKUST Robotics Team, Engineering Student Ambassador

Georgia Institute of Technology
Atlanta, Georgia, USA

EXCHANGE PROGRAM IN COMPUTER SCIENCE - GPA: 3.75
Aug. 2016 - Dec. 2016

- Highlight courseworks: Introduction to Artificial Intelligence, Machine Learning, Design & Analysis of Algorithm
- Activities & Societies: Georgia Tech eSports, Georgia Tech Big Data Club, Georgia Tech Intramural Soccer

💼 Experience

Institute for Pure & Applied Mathematics
Hong Kong

RESEARCH INTERN & PROJECT MANAGER
Jun. 2017 - Aug. 2017

- Project: "Efficient Communication in Distributed Machine Learning" sponsored by Microsoft Research Asia
- Investigated the effect of communication frequency in distributed Stochastic Gradient Descent (SGD)
- Performed the experiment on Logistic Regression, Convolutional Neural Network and Long-Short Term Memory RNN
- Lead an international team of 4 from UC Berkeley, HKUST and Grinnell College

Altitude Labs
Hong Kong

SOFTWARE ENGINEERING INTERN
May 2016 - Aug. 2016

- Wrote MySQL database integration code using Django Web Framework.
- Implemented backend functionalities using Django REST Framework.
- Proof-tested the performance of email automation functionalities using MailChimp.

HKUST Robotics Team
Hong Kong

SOFTWARE ENGINEER
Dec. 2015 - Aug. 2016

- Designed and built various functional libraries for STM32 based mainboard using Keil IDE in C.
- Programmed and proof-test track-following robot using various tools and sensors.
- Achieved first runner-up at ABU Robocon Hong Kong 2016

</> Highlight Projects

ScholarsNet
Flask, scikit-learn, Sqlite, scrapy

A MINIMALIST COMPUTER SCIENCE RESEARCH PAPER PORTAL
Code Here

- Performed web crawling on various data sources
- Implemented automatic paper recommendation and categorization using cosine similarity algorithm and Naive Bayes classifier
- Designed & built the web application using Flask

!Safe
scikit-learn, pandas

DETROIT'S NOT SAFE, BUT YOU CAN BE. LEVERAGE MACHINE LEARNING AND CROWD-SOURCED DATA TO NAVIGATE YOUR LIFE.
Code here

- Performed data cleaning on Detroit city's crime data
- Implemented K-means clustering algorithm to map out Detroit city's crime heat-spots

Quora Scraper
selenium, BeautifulSoup

EASILY GATHER ANSWERS FROM QUORA
Code here

- Wrote a web crawler using selenium framework to get answers from Quora
- Performed data parsing using BeautifulSoup

⚙ Skills

Data Science	numpy, pandas, matplotlib, scikit-learn, CNTK, MySQL, Sqlite
Embedded Systems	STM32, Arduino
Web	Django, Flask, Jinja2, MeteorJS, scrapy, selenium
Human Languages	Indonesian (Native), English (Proficient), Chinese Mandarin (Conversational)