

## WORK EXPERIENCE (SELECTED)

Research Engineer	A*STAR - Institute for Infocomm Research	Not yet started
• Human Language Technology - Machine Translation		

Master of Engineering Candidate	Satellite Research Centre	August 2016 - August 2018
• Implemented a design of Star Tracking Algorithms onto a Programmable System-on-a-chip system.		
• Optimized the pattern recognition algorithm runtime by implementing the connected component labeling algorithm on parallel processors. Runtime is improved 64% on average compared to traditional processor approach.		
• Optimized and designed the pattern searching algorithm by applying k-ary tree data structure. Time complexity and runtime improved 31%, but space complexity and memory increased 22%.		
Languages/Technologies: C/C++, Python, Bash		
Source code: <a href="https://git.io/vpucY">git.io/vpucY</a>		

## PROJECTS (SELECTED)

Dota 2 Hero Recommendation
• Recommended game characters based on historical user data collected by Open Dota API.
Languages/Technologies: Python, flask, pandas, numpy.
Source code: <a href="https://git.io/fhV1q">git.io/fhV1q</a>

Stock Price Predictor
• Predicted Time-series data by Linear Regression and ARIMA modeling approaches.
• Optimized Model's accuracy by 20% by performing feature engineerings and hyper-parameters optimizations.
• Evaluated and Benchmarked models based on Root Mean Squared Error Metrics.
Languages/Technologies: Python, pandas, numpy, matplotlib, sklearn.
Source code: <a href="https://git.io/vpuCA">git.io/vpuCA</a>

Neighborhood Map APIs
• Built a neighborhood map based on Google Map, Wikipedia, Foursquare APIs.
• Deployed and Configured Amazon Linux servers.
Languages/Technologies: Javascript, Flask, Ajax, jQuery, Knockout.
Source code: <a href="https://git.io/fhVMf">git.io/fhVMf</a>

## EDUCATION

Master of Engineering	Nanyang Technological University	August 2015 - August 2018
• School of Electrical and Electronics Engineering - Research.		
• THESIS TITLE: Implementation of An Autonomous Star Recognition Algorithm using Hardware-Software Co-Processing Approach.		

Bachelor of Engineering	Vietnam National University HCMC	August 2010 - April 2015
• Ho Chi Minh City University of Technology - Electrical and Electronics Engineering - Second Upper Honour		
• Major in Automation and Control engineering, minor in Robotics and Embedded System Design.		
• THESIS TITLE: Applying of Fuzzy Logic Algorithm on Legged Locomotion Robot.		

## CERTIFICATES AND RELATED COURSEWORKS

- COURSERA - [DATA STRUCTURES AND ALGORITHMS SPECIALIZATION](#).
- COURSERA - [MACHINE LEARNING SPECIALIZATION](#).
- COURSERA - [BIG DATA ESSENTIALS: HDFS, MAPREDUCE, AND SPARK RDD](#).
- COURSERA - [INTRODUCTION TO DEEP LEARNING](#).
- UDACITY - [MACHINE LEARNING ENGINEER NANODEGREE](#).
- UDACITY - [FULL STACK WEB DEVELOPER NANODEGREE](#).
- MIT-6.041-PROBABILISTIC SYSTEMS ANALYSIS AND APPLIED PROBABILITY
- UC BERKELEY - CS162 - OPERATING SYSTEMS AND SYSTEMS PROGRAMMING
- UIUC - CS425 - DISTRIBUTED SYSTEMS