TRINH VIET ANH

Email: anhtv1@gmail.com

Mobile Phone: 0084.985501885

Skype: tvanh512

Education

2003-2008 **Hanoi University of Science and Technology, Vietnam**

Bachelor of Electronics and Telecommunications.
Classification: Excellent.
GPA: 8.16 (Grading scale: 10).
Ranking: 1st out of 43 students in the class.
Top 1% of the School of Electronics and Telecommunications.

2015 **Vietnam Institute for Advanced Study in Mathematics**

Summer School on Statistical Machine Learning - Professor Ho Tu Bao, Japan Advanced Institute of Science and Technology and Associate Professor Nguyen Xuan Long, University of Michigan.

2015 **Coursera**

Machine Learning – Associate Professor Andrew Ng, Stanford University.
Natural Language Processing – Professor Dan Jurafsky and Christopher Manning, Stanford University.
Probabilistic Graphical Models – Professor Daphne Koller, Stanford University.
Algorithms: Design and Analysis – Professor Tim Roughgarden, Stanford University.

Research experience

2017 **Concatenative analysis-by-synthesis**

Extract speech feature in order to recognizing speech in noise by synthesizing it non-parametrically.
Tool: Tensorflow, Python

2017 **Music composer classification**

Using different machine learning technique: Support Vector Machines (SVM) , Logistic Regression (LR), K-Nearest Neighbors (KNN) to recognize music pieces from different classic composers for machine learning class project.
Tools: Python, Scikit-learn, music21

2016 **Incorporating a speech model into multichannel spatial clustering**

Review literature and deploy baseline method from M. Souden, J. Chen, J. Benesty, and S. Affes, "An integrated solution for online multichannel noise tracking and reduction," , which base purely statistical information in the data to estimate the noise and speech probability distributions.
Tool: Matlab

2007 **Project : Telecommunication Network Design**

Design telecommunication network by using Visual Basic.
Design Access Network: build CMST (Capacitated Minimum Spanning Tree) by using Kruskal's algorithm.
Design Backbone Network with Mesh Network Topology Optimization Routing (Mentor).
Use Dijkstra's algorithm to construct a Shortest Path Tree and Prim's algorithm to build Minimum Spanning Tree.

2007	**Project : Data Management** Create a student data management program for Student Administration Department by using Visual Basics and SQL Server.
2008	**Graduation thesis: IDS - Intrusion Detection System** Work at Network Lab in Hanoi University of Science and Technology. Analyze Internet threats and attacks. Analyze IDS system structure and its operation. Build a free security system on Linux with IDS (snort), firewall (shorewall), web-server (apache), data (mysql), web-based interface (webmin).
2008	**Internship report: WLAN Security** Work at Security Lab in FPT Company. Analyze WLAN structure and threats.

Work experience

2016-present	**CUNY Graduate Center – PhD in Computer Science**
2011-2016	**Texas Instruments - Technical Business Development Engineer** Support customers in using TI semiconductor products and recommend solutions to build electronic devices. Present technical seminars and organize microcontroller contests.
2008- 2011	**Viettel Technologies - Technical Engineer** Technical support in network and system for customers. Prepare technical solutions and give technical training sessions to team members.

Skills and competencies

Programming languages: Python, Matlab, C, C++, PHP, HTML, Java, Visual Basic and assembly.
Query language: SQL.
Databases: MySQL, Microsoft SQL Server
Operating systems: Linux (Ubuntu, Fedora, Redhat)
Strong Mathematics (Probability, Statistics and Calculus), Computer Science, Network and Electronics background.