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Dat Thanh Nguyen

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EMPLOYMENT

NSF Researcher **North Carolina A&T University** May 2016 – August 2016
- REU Program: Engineering Modeling and Computation Research
- Improved Infrared image quality by implementing Thermography Signal Reconstruction Algorithm on MatLab.

IT Support Analyst **Genomic Health Inc.** May 2014 – September 2015
- Performed hardware repair and maintenance.
- Solved emergency IT-related problems and assisted employees on technical issues.

Lab Technician Assistant **CompTechS Program** January 2014 – May 2014
- Recycled hundreds of old computers/laptops to donate to low-income students.
- Learned standard procedures in Laboratory Environment.

EDUCATION

De Anza Community College **Computer Engineering, B.S.** Fall 2013 – Current
- Relevant Coursework:

Data Structures (C++)	A	Introduction to x86 Assembly Programming	A
Advanced C++ Programming	A+	Object-Methodology Programming in Python	A
Introduction to UNIX/LINUX Programming	A	Object-Oriented Analysis and Design	A-

PERSONAL PROJECTS

- **Autonomous 1/10th Race Car** *https://github.com/dat-ai/jetson-car* *C++/C/Python/ROS*
  - *Implemented a steering model to race in a small track using Deep Net and ROS as an interface.*
  - *Joined DIYRoboCar group to compete and learn from other enthusiasts.*

- **Traffic Sign Classifier** *https://github.com/dat-ai/traffic-sign-classifier* *Python/TensorFlow*
  - *Achieved 97.83% Accuracy on Germany Traffic Sign Dataset.*
  - *Designed a custom CNN inspired by VGG-16 CNN.*

- **Behavioral Cloning** *https://github.com/dat-ai/behavioral-cloning* *Python/Keras*
  - Built a model combined of LSTM RNN and ResNet Pre-Activation CNN to learn my learning behavior.
  - Trained the car to drive successfully in a simulator.

PROFESSIONAL DEVELOPMENT

Self-Driving Car Engineer Nano-degree **Udacity.com** November, 2016 - Current
- Learned about Deep Learning, Computer Vision and Core Robotic Functions for autonomous vehicle system.

Self-Taught Online Courses

CS23N: Convolutional Neural Networks for Visual Recognition	MIT 6.S094 Deep Learning for Self-Driving Cars

EXTRA-CURRICULAR ACTIVITES

- **Private Math Tutor** September, 2016 - Current
  - Helped freshman understand core concepts in Algebra, Pre-Calculus and Calculus.
- **Teaching Assistance Volunteer** September, 2016 – Current
  - Helped new Computer Science students familiar to Data Structures and Programming in C++

LANGUAGES & TECHNOLOGIES

- Programming languages: C++/C, Python, HTML/CSS
- Tools: TensorFlow, Keras, Robotic Operating System(ROS), OpenCV