Shibo Tang

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I have finished my master in Internetworking in Dalhousie University, Canada and my bachelor in automation in NPU, China. I got a scholarship due to my outstanding academic performance. In addition, I have excellent academic records and practice experience during both my graduate and undergraduate studies.

GitHub：（你的GitHub的地址）

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| **Educational Background** |  |

• **Master’s Degree Program** September 2017 – May 2019

Department of Engineering, Dalhousie University

Major: Internetworking

GPA: (你的GPA是多少)

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| • | **Bachelor’s Degree Program** September 2012 – June 2016 |  |

School of Automation, Northwestern Polytechnical University

Major: Automation

GPA: （你的GPA是多少）

**SKILLS**

* Strong knowledge of security technologies such as access control, IDS/IPS, SSL/TLS, IPsec VPN etc.
* Profound knowledge of principle, configuration and application of routing protocols including OSPF, EIGRP, and BGP etc.
* Proficient understanding of various protocols of OSI model.
* Strong ability in network troubleshooting and hands-on experience in network topology design.
* Good programming skills in Python and C++.
* Familiar with MATLAB and Simulink.

**Project Experiences**

1. **Control System Design and Semi Physical Simulation of the Reduced Ratio Verification Model of Unmanned Combat Aircraft (Thesis topic for undergraduate program)**

*Key Achievements*

* Establishing a mathematical model for UAV by deriving a set of nonlinear equations.
* Balance and linearization of the previously obtained nonlinear equations to get the corresponding linearized equation of motion.
* Implementing the classic PID control algorithm, optimizing the PID control rate for various directions and performing simulation evaluations.

1. **Web Development by Django**

*Key Achievements*

* Install the Django environment and call the multiple APIs to get the corresponding data in json format which would be used in the project
* Create the Django project and works on the views.py document, post the json format data in views.
* Process json data to get a list of values and print them on the template in the Django project, and link the views and template by using return render(request, html file, args), I pass a dictionary as args, the template will refer the key and post the values on webpage.
* Edit the html file to print the data on the webpage and also build a login page, set up a superuser for the login page and also link the login page and data page.
* Allow user passing any IP address they are interested in and get IP details and the IP location’s detailed information. I create a new html file in templates folder called 'search.html', use a form to store user's input. Then I build the function in views to receive the data and return a list of data to another template called "result.html". Finally, I set up the urls.py to link the functions in views and url.

1. **The Practice of SDN-Based Network**

*Key Achievements*

* Build the simulation test platform based on Floodlight+Mininet.
* Configure the floodlight controller in the Linux system.
* Use the Mininet to create the topology and link it to the floodlight controller to print the topology on the UI page.
* Ping between each devices in the topology and monitor the traffic and the status of devices through the controller
* Edit the code on the southbound interface of the controller to limit any specific traffic in the network.

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| **AWARDS & SCHOLARSHIP** |  | |
| • Outstanding Volunteer of the 32th China Control Conference January *2013* • Outstanding Youth Volunteer in 2012-2013 academic year of Northwestern Polytechnical University *May 2013*  • Second Prize of 2014 Math Model Competition of Northwestern Polytechnical University  *June 2014*  • China Samsung Special Scholarship in 2013-2014 academic year of Northwestern Polytechnical University *November 2014*  • First Prize of the “Soar Cup” Innovation Competition of Northwestern Polytechnical University with the work of “Self-Unloading Control System for Rigid-coupling Flight-refuel Mechanism”  *December 2014* | |
| • Internetworking Academic Performance Scholarship *March 2018*  • Internetworking Academic Performance Scholarship *March 2019* | | | |
| **EXCHANGE PROGRAMS** |  | |
| • Exchange Study program of the “Leadership Development Courses of the Road to Success” in Taiwan of CEO Global Education Foundation *August 2013* | |
| • Exchange Study Program of the 2015 “Mainland College Students Exchange Practice in Hong Kong” *July 2015* | |