

 <p>YIXIAO LI</p>	<p>My Info</p> <p>Name: Yixiao Li (Sally)</p> <p>Birth: 09/17/1996</p> <p>Email: yil210@pitt.edu</p> <p>Major: MS in Information Science Huazhong University of Science and Technology (HUST)– Information Security</p>
<p>Recent Experience</p>	<p>NetFilter-based Linux Packet Filtering Firewall with NAT</p> <ul style="list-style-type: none"> ● Filtered packets by rules which contain IP & port ranges of the source and destination, protocol, action, and log option and take effect immediately after user configuration ● Made client and firewall kernel module communicate by character device through Linux Kernel programming ● Designed and implemented client through Qt programming ● Realized Network Address Translation and set up a network of internal and external networks to demonstrate <p>WEB Project - “In the Name of Poetry”</p> <p><i>Objective: To design a searching engine, aiming to search certain words from the backend database of classical Chinese poetry which includes 254,000 Song poetries and 57,000 Tang poems, and get results that are sorted by certain rules, for example, we give priority to the result of two Chinese characters aligned in two consecutive sentences so we can find out which ancient poems our names originated from.</i></p> <ul style="list-style-type: none"> ● Designed the sorting algorithm for searched results and rated resultant poetries containing keywords ● Implemented the backend search and optimization of search results through PHP programming <p>WEB application firewall Driven by Machine Learning</p> <ul style="list-style-type: none"> ● Collected 102657 network traffic samples including XSS, SQL injection and CSRF and other attacks ● Trained a variety of classifier models using different algorithms and evaluated them by multiple criteria ● Implemented a reverse proxy server through Python programming ● The trained machine can automatically and accurately distinguish between normal traffic and attack traffic, and intercept and record malicious requests.
<p>Goals of Study</p>	<p>I want to develop practical skills and I look forward to gaining experience that will benefit my future career.</p>
<p>Skills and Interests</p>	<p>Computer Language: C, C++, Java, Python & PHP; Programming Software: Eclipse, Qt Creator, etc.</p> <p>Operating System: Windows and Linux; Other: MySQL and Wireshark etc.</p> <p>Jazz, Double Bass, Piano; Badminton, Swimming</p>