Hao Qiao

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EDUCATION

School of Physics
Peking University, Beijing, China, expected July 2015
Concentration: Physics

COMPUTER SKILLS

Languages & Software: C++, JavaScript, PHP, C Sharp, Latex, ROOT(cern), Matlab, Mathematica.

EXPERIENCE & PROJECT

Undergraduate Research

- **Cell Visualization** Visualize cell information during nematode growth. Use AJAX to avoid big data transfer and Webgl to draw 3D graphics. (http://bio.catofes.com)
- **Cell Pattern Research** Set up a physical model to find out the normal relation between cell pattern and regulation network. Write a program to analyze about 4GB data that model gives.

Website

- **CommentCoreLibrary** A js library to show comments by time. Preload all DOM elements to optimize the performance.
- **VideojsABdm** Developed a plugin of Video.js which can show comments during the video playing. (Src: https://github.com/Catofes/videojsABdm, Demo: http://catofes.github.io/videojsABdm/demo)
- Set up A compas website use VideojsAbdm to play video with comments from Bilibili. It can also automatic download video accourding to RSS.
- **CloudEmoticonPHP** An api server to support sync service of Cloud Emoticon.(https://github.com/Catofes/CloudEmoticonPHP)
- **KeywordMinus for Google Plus** A chrome plugin which can filter keywords for google plus. Include sync function. (https://chrome.google.com/webstore/detail/keyword-minus-for-google/nilnpooaepilabcjnflomgjnepabbfen?hl=en&gl=US)
- **FFF.ac** This is a website to short url. Still under development. (Src: https://github.com/phoenixlzx/FFFac, Demo:http://fff.ac)

Network Tools Due to the school's bad network I had developed some windows and linux software to optimize that.

- **mUDP** Thi s is a socket utility that divide one UDP data flow into multi data flow to obfuscate the data. (https://github.com/Catofes/mUDP/tree/raw_socket)
- Setup a Virtua l Private Network using openvpn. Also developed a website for user control and flow statistics. Using port forwarding and traffic obfuscation to avoid the network interference in IPv4. This project serves about 30 person.
- **HostChange** Dev eloped a software that can automatic fetch hosts content from net and set it to local. Use multithread to accelerate hosts' downloading. (https://github.com/Catofes/HostChange)