HOLLY LI

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OBJECTIVE: To obtain a full-time position in front-end Software Engineering.

EDUCATION

Carnegie Mellon University Pittsburgh, PA

M.S. Computer Science (Computational Biology)

Honor Department Merit Fellowship (Tuition Scholarship) Selected

AUG 2014
MAY 2016
(EXPECTE)

Sun Yat-sen University Guangzhou, China

B.S. Biological Science

Honor BEST SOFTWARE tool project and GOLD AWARD in 2013 iGEM (International Genetic Engineering Machine) world competition held in MIT, Boston (SYSU-Software team member)

SEP 2010
JUN 2014

WORK EXPERIENCE

Philips Briarcliff Manor, NY

Research Intern of Clinical Informatics Solutions and Services(CISS)

Developed an algorithm to analyze clinical data to identify genetic mutations caused for antibiotic resistance in bacterial pathogens in Python and validated the correlation of results by statistical methods.

MAY 2015
AUG 2015

SELECTED PROJECTS

Generalized Data Mining Platform

Implemented all back-end machine learning algorithms such as Random Forest, Neural Network, Hidden Markov Model.

Social Network (Deployed on AWS EC2)

Developed a dynamic website with several interactive features involving following stream, push wall, notification, message system.
Design front-end visualization and UI based on Bootstrap framework and all logos and icons.

WebSnap Chatting Web Application

Designed the UX and implemented the front end features based on Backbone.js of an real-time online private chatting application with disappearing messaging feature for multi-users using the Parse PaaS as the backend.

Biological/Clinical data mining and processing

Analyze edited DNA sequence in two different human cell lines and estimated gene-editing efficiency.
Performed noise filtering, feature detection, object segmentation and simulation of microphotographs by MatLab.
Visualized RNA and RNA-Binding proteins interactions network using R.

SKILLS

Programming

Python
Java
Perl
SQL
Go
C
R
HTML
PHP
CSS
JavaScript
Matlab
Shell

Tools

Git
Hive
MapReduce
Hadoop
MySQL
node.js

Web Development

Bootstrap
jQuery
Django
backbone.js

UI Design

Photoshop
Illustrator
Sketch