

HOLLY LI

PORTFOLIO: xinranli.github.io

xinranli@cmu.edu

(412) · 932 · 6740

Pittsburgh, PA 15217

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)

AUG 2014

MAY 2016

(EXPECTE)

Sun Yat-sen University Guangzhou, China

B.S. Biological Science

SEP 2010

JUN 2014

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)

SKILLS

Programming

Python

Java

Perl

SQL

Go

R

HTML

PHP

CSS

JavaScript

Matlab

Shell

Tools

Git

MySQL

node.js

Web Development

Bootstrap

jQuery

Django

backbone.js

UI Design

Photoshop

Illustrator

Sketch

WORK EXPERIENCE

Philips Briarcliff Manor, NY

MAY 2015

AUG 2015

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 and validated the correlation of results by statistical methods.

Jitsun Software Technology Guangzhou, China

JUN 2014

AUG 2014

Software Engineer Intern

Developed Android app for social life.

SELECTED PROJECTS

Biological/Clinical data mining and processing

Analyze edited DNA sequence in different human cell lines and estimated gene-editing efficiency. Performed noise filtering, feature detection, object segmentation and simulation of microphotographs and visualized biological interactions network.

Generalized Data Mining Platform

Implemented all back-end machine learning algorithms such as Random Forest, Neural Network, Hidden Markov Model of a web based data mining platform.

Social Network (Deployed on AWS EC2)

Developed a dynamic website with several interactive features involving following stream, push wall, notification, message system.

WebSnap Chatting Web Application

Designed and implemented the front end UI/UX features based on Backbone.js of a real-time online chatting application with several privacy protecting feature using the Parse PaaS backend.

Computational Biology Simulation and Modeling

Use several mathematical models or sampling methods to simulate biological problems such as neuron spiking, protein combination states.