HOLLY (XINRAN) LI

xinranli.github.io ◇ (412) · 932 · 6740 ◇ xinranli@cmu.edu

OBJECTIVE: To obtain a full-time position in software engineering or web development

EDUCATION

Carnegie Mellon University (CMU) *Pittsburgh, PA*
M.S. in Computer Science(Computational Biology) *Aug 2014 – Dec 2015(expected)*
Honor: Merit Fellowship (Tuition Scholarship) from Department of Biological Sciences
Selected Courses: *Cloud Computing, Java For Application Programmer, Data Structure for Application Programming, Machine Learning, Programming for Scientists, Network Science*

Sun Yat-sen University (SYSU) *Guangzhou, China*
B.S. in Biological Science *Sep 2010 – June 2014, China*
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) *Nov, 2013, MIT*

TECHNICAL SKILLS

Languages	Python,Java, Go, Perl, C, SQL, R, HTML, CSS, JavaScript, Matlab
Web Development	jQuery, Django, AJAX, Bootstrap, MySQL, Adobe Photoshop, Illustrator

WORK EXPERIENCE

Philips *May 2015 – Aug 2015*
Research Intern of Clinical Informatics Solutions and Services(CISS) *Briarcliff Manor, NY*

- Developed analytic program in Python to select feature genes in bacteria genome of clinical data.
- Classified the gene results and implemented statistical method to estimate correlation.

SELECTED PROJECTS

Searching Directory Application *Sep 2015, CMU*

- Built a database with GUI in Java supporting data import from input files, data management and searching.

Biological/Clinical data mining and processing *Mar, 2014, SYSU - Jun, 2015, CMU*

- Applied machine learning methods to analyze large genome data and extract features of interests.
- Developed a string alignment program in Perl to estimate DNA sequence editing efficiency of a model.
- Performed noise filtering, feature detection, image segmentation and simulation of microphotographs by MatLab.
- Visualized biomolecules interactions network using R.

Wikipedia page view data processing *Sep 2015, CMU*

- Used AWS Elastic MapReduce to filter, extract and aggregate daily page view data from 300G raw wikipedia log dataset on the cloud.
- Developed a RESTful web system for Wikipedia data analysis which extracts data from MongoDB and used Node.js to implement real time response to user queries.

Social Network (Deployed on AWS EC2) *Jan 2015 - Mar 2015, CMU*

- Developed a dynamic website with several interactive features such as user registration, email verification, blog posting using JavaScript and AJAX based on MVC model of Django Framework and SQLite.
- Design front-end visualization and user interface using Photoshop, Bootstrap, HTML and CSS.