HOLLY LI

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

EDUCATION

Carnegie Mellon University (CMU) — *Pittsburgh, PA*
M.S. Computer Science(Computational Biology) — *Aug 2014 – May 2016(expected)*
Honor: Department Merit Fellowship (Tuition Scholarship)
Selected Courses: J2EE Web Application Development(Audited) | Cloud Computing | Java For Application Programmer | Data Structure for Application Programming | Machine Learning | Advanced Web Design(Audited)

Sun Yat-sen University (SYSU) — *Guangzhou, China*
B.S. 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

Programming Languages	Python, Java, Go, Perl, C, SQL, R, HTML, PHP, CSS, JavaScript, Matlab
Tools or Databases	Shell, Git, MapReduce, Hadoop, Hive, MySQL, node.js,
Web Development	Bootstrap, jQuery, backbone.js, Django
UI Design	Photoshop, Adobe Illustrator, Sketch, Proto.io

WORK EXPERIENCE

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

- 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.

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.

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, image segmentation and simulation of microphotographs by MatLab.
- Visualized RNA and RNA-Binding proteins interactions network using R.