Development Intern Development Intern Master of Biomedical Informatics & Computer Science; Biostatistician; Data Analyst; Python Developer; Web Developer New York, NY Handong Ma is an experienced Data Scientist / Computer Developer / Bioinformatician with solid Biology, Healthcare and Business background. He is currently a Master student of Biomedical Informatics (DBMI) at Columbia University Medical Center. He was also admitted by Georgia Institute of technology as the first cohort of the accredited online Master of Science in Computer Science program (OMSCS). Apart from that, he won Wharton Foundation Series certificates offered by Wharton School of the University of Pennsylvania in his part time. Currently, Handong is conducting biomedical data analysis with Prof. Chunhua Weng at Columbia Medical Center in domain of text mining, information extraction, natural language processing (NLP) and Health Information Exchange. He has been doing research for over 4 years and has great passion in this area. He has several publications available on PubMed, with several in preparation. Handong Ma is also a trained Web Developer and Software Engineer. He built several websites: http://plorz.com, http://machinities.com and http://handongma.com. Some of his sample projects can be found here (https://github.com/18dubu). Go check them out! Apart from that, Handong is a huge fan of startups. He founded Plorz LLC. (http://plorz.com). If you have great ideas, he would love to hear about it! Handong Ma will graduate in May 2015 and is searching for a job in Data Science/Health Informatics/Natural Language Processing/Software Development/Artificial Intelligence/Web Development fields. Let's talk if you know such openings! Specialties: Developer: Python (4y), Java (2y), R (3y), Perl (5y), C (2y), Javascript (2y), HTML5 (2y), MySQL (2y) Computation: Biostatistics, Machine Learning algorithm, Health IT, Natural Language Processing, Speech Recognition, Artificial Intelligence Biology and Healthcare: Genomics, Biological Sequence Analysis, Clinical Trials, HIE, EHR Business: Operation management, Marketing, Finance, Accounting Sponsorship required to work in the US Work Experience Development Intern Pfizer - Pearl River, NY May 2015 to Present Responsibilities Develop the MiSeq Experiment management System (MMS) for Pfizer. Design and implement the rnai.pfizer.com application. Accomplishments The web application deployed to: http://rnai.pfizer.com (internal server) Skills

Used Python programming, Web development, Django framework, Ajax, JQuery Database, MySql, PostgreSql Data Scientist / Bioinformatics Scientist Columbia University - New York, NY September 2014 to Present Research fields include: Health information exchange (HIE); Natural Language Processing (NLP) for clinical text; Clinical Trials eligibility bias estimation; Predictive models for drug side effects; Electronic Health Record (EHR) information retrieval. Role: Build clinical trial data mining pipeline, online application using Python, R, HTML5,etc; Advisor: Prof. Chunhua Weng Project Leader / Data Analyst / Python Developer/ Web Developer Columbia University & Georgia Institute of Technology - New York, NY October 2013 to December 2014 HealthViz.org - a clean & efficient health information visualization system - Team Leader. (Georgia Institute of Technology) HealthViz is a clean & efficient health information visualization system. Through this project, we aim to improve the efficiency of Health Information Exchange (HIE) process. The system enables efficient exchange of data from PCP and all specialists using standard CCD document. Featured by its capacity of memorizing user preferences, integrating & prioritizing health data, it sheds new light on current health information system design.

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autoVoxforge - automatic speech recognition training & testing system - Project Designer & developer autoVoxforge is a Python project aiming at automatically perform speech recognition and language modeling by Voxforge and Hidden Markov Model Toolkit (HTK). This system facilitates automation is the whole process of training testing on large corpus, rather than the traditional manual way. It partially solves the problem of data normalization, which is a huge bottle neck in the whole process.

EliTES - clinical trial Eligibility Tracing and Estimation System - Project designer & developer In this study, we first proposed the method of tracking clinical trial design information in predicting post-market drug performance. We focused on the eligibility focus shift between pre-market and post-market interventional drug trials and tried to assess its relationship with post-market drug performances and possible side effects. We found that it is possible to predict post-market drug

performances by integrating the design of eligibility section for interventional drug trials alone, rather than waiting for trial outcome. The manuscript is under preparation.

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http://machinities.com - Personal Project machinities.com is the website I built as a personal project. It is the hub of my several projects including image recognition, motion detection and other AI projects. In hope of creating a open learning environment, I posted several tutorials about creating projects like that. I will come up with new project in the future, keep tuned! Senior Web Developer Plorz LLC - New York, NY November 2013 to October 2014 Responsibilities Worked as Senior Web Developer for the startup company Plorz LLC. Accomplishments Responsible for design and implement whole http://plorz.com website architecture using Python (backend), HTML5, CSS3 and Google App Engine (GAE). Developed machine learning algorithm in monitoring customer behavior while using the site. Skills Used Python, HTML5, CSS3, mySQL, NoSQL, Google App Engine (GAE) Machine learning, Project Management Project Intern Accenture Consulting - ??? February 2013 to April 2013 IT consulting, software development and supplier management for Mitsubishi Education MA in Medical Center Columbia University September 2013 to Present BS in Biology Fudan University September 2009 to June 2013 MS in Computer Science Georgia Institute of Technology 2014 Skills Java, Python, My-SQL, Perl, R, HTML5, CSS3, C, Shell, Data Mining, Machine Learning, network analysis, Natural Language Processing, Clinical (healthcare) Data Analysis, Web development, Android APP development, Speech Recognition, Operation management, Marketing, Finance, Accounting, Entrepreneurship, English, Chinese (Mandarin), French Links http://plorz.com http://www.linkedin.com/pub/ma-handong/56/77/586 http://handongma.com Awards Silver Medal, Safety Commendation, International 2012 Genetically Engineered Machine (iGEM) competition Asia 2012-10 Second Prize, Shanghai College Latin Dance Competition 2012-07 Certifications/Licenses An Introduction to Operations Management June 2013 to Present Coursera Verified Certificates(Certificate Number: A2D9H6W84C) https://www.coursera.org/signature/certificate/A2D9H6W84C An Introduction to Financial Accounting Present Coursera Verified Certificates (TGN4M9VWHL)

https://www.coursera.org/signature/certificate/TGN4M9VWHL An Introduction to Corporate Finance December 2013 to Present Coursera Verified Certificates(4PHMTHAQ2C) https://www.coursera.org/signature/certificate/4PHMTHAQ2C An Introduction to Marketing January 2014 to Present Coursera Verified Certificates (E7B3NAGYSY) https://www.coursera.org/signature/certificate/E7B3NAGYSY Publications Molecular mechanisms and function prediction of long noncoding RNA http://www.hindawi.com/journals/tswj/2012/541786/abs/ 2012-11-21 The central dogma of gene expression considers RNA as the carrier of genetic information from DNA to protein. However, it has become more and more clear that RNA plays more important roles than simply being the information carrier. Recently, whole genome transcriptomic analyses have identified large numbers of dynamically expressed long noncoding RNAs (lncRNAs), many of which are involved in a variety of biological functions. Even so, the functions and molecular mechanisms of most lncRNAs still remain elusive. Therefore, it is necessary to develop computational methods to predict the function of lncRNAs in order to accelerate the study of lncRNAs. Here, we review the recent progress in the identification of lncRNAs, the molecular functions and mechanisms of lncRNAs, and the computational methods for predicting the function of lncRNAs. Additional Information Language: English, Chinese (Mandarin), French Hobby: Latin Dance, Basketball, Badminton, Ping-Pong, Bowling, Debate, Astronomy

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