Hao Wu

New York, NY 11374 | 347.740.5351

thefifth2002@gmail.com | www.linkedin.com/in/wu-hao | www.github.com/thefifth2002

Education

New York University, Courant Institute	*New York, NY*
M.S. Computer Science	*2015 - Dec.2016*
The Graduate Center of CUNY	*New York, NY*
Ph.D. Biology	*2007 - 2015*
Shandong University	*Jinan, China*
M.S. Biology	*2004 - 2007*
Shandong Normal University	*Jinan, China*
B.S. Biology	*2000 - 2004*

Professional Experience

Insight Data Science   *New York, NY, Sept. 2017- Current*
Data Engineering Fellow
- Constructed and scaled a distributed streaming pipeline for a real-time credit card transaction alert system.
- Ingested high volume data with Kafka and Spark Streaming, optimized streaming process in Spark and MySQL queries to enable swift database update.
- Created front end user interface to enable alert and user queries.

Primary Cell, LLC   *New York, NY, 2013 - 2015*
Partner & Chief Scientist
- Commercialization of primary neuron culture cryopreservation at low cost and competitive price.
- Quality test and viability analysis of neuron product for commercial sales.
- Research on cryopreservation techniques and optimization of cell preservation storage conditions.

Graduate Center, City University of New York   *New York, NY, 2008 - 2015*
Research Assistant and Adjunct Instructor
- Scientific computation, visualization and statistical research on Autism, used image and video processing and deconvolution techniques.
- Computational construction of biological model used C++, and simulated of the hydrokinetics of Nanoparticles and micro vesicles in a cell culture medium environment.
- Instruction, course organization, experiment and exam designed for college pre-med classes.

Technical Skills

- Programming Languages: Java, C++ and Python.
- Data Science Infrastructure: AWS, Spark, Kafka, Map-Reduce, MySQL, Hive and MATLAB.
- Web construction: .Net, C#, JavaScript, HTML, CSS, TypeScript and AngularJs.

Independent Projects

- Amazon sales and review data mining and analytics with Big Data technologies (implemented with Java), cross referenced sales data to review data, developed a potential new Book search algorithm. https://github.com/thefifth2002/Amazon-Data-Mining
- Web, Android and iOS cross-platform community game development with HTML, CSS, AngularJs and PhoneGap. www.ilovenyc.us | https://github.com/thefifth2002/Draw-something