Lihua (Neo) Pei

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Summary:

- Now major in Data Analytics. Have one-year programming experience in actual research projects, and now focus on studying machine learning combing with statistic models.
- Familiar with various software methodology, programming languages and development tools.
- Enthusiastic about research and studies related to statistics and machine learning, prepared for further study and research in combine machine learning and statistic business.

Education:

Bachelor in Applied mathematics and Statistics (AMS)

- Stony Brook University, Stony Brook, NY
- CGPA: 3.55/4.00
- Sep 2014 to Dec 2017

Master in Data Analytics

- George Washington University, Washington, DC
- Sep 2018 to ...

Skills:

Computer Skills

- Programming Languages: Java, Python, C, MATLAB, R and SAS
- The Capability of managing and developing programs with Java and Python
- Data Analysis: Statistic data analysis (R and SAS)
- Advanced Photoshop Designer
- Parallel Computing: MPI

Language Skills

- English (Professional and proficiency in reading and writing)
- Chinese (Native)

Other Skills

- Self-motivated
- Team Leadership
- Well Known Excel and PowerPoint

Experience:

Job Experience:

Computer Coin Developing: Scheduling Project Design

Grand Central Tech, NY, Scala Computing (Jan 2018 – May 2018)

- Design the whitepaper which purposes a new reinforcement model PANDA
 (Policy Advisor Network and Decision Architecture) applies the reinforcement learning to arrange consumer jobs for certain computer power resource.
- Response to design and build all diagrams and graphs.
- Programming the preliminary simulation and implementing PANDA model.

Android Games Development

Hong Kong, China, Fire Pillar Studio (June 2017 - Present)

- Develop a deep-learning program MIB (make it breath) which can auto recognize the characters in pictures and make characters have a certain action like breath.
- Collect and Build a database for deep-learning training.
- Response to art and virtual design.

HPC Research Assistant

Shandong, China, Ginan National High-Performance Computing Center (May 2018 – July 2018)

• Maintain equipment.

- Fix and replace the broken parts.
- Assist HPC test experiment.

Graduate Research Project:

Optimal Topologies Searching Research Guided by Prof. Yuefan Deng

Stony Brook, NY, Stony Brook University (Aug 2017 - Present)

- Design and implement an algorithm to generate degree-3 topologies with 64 nodes.
- Successfully find the optimal topologies of 64K3 (shortest mean path).
- Design the experiment to text five MPI broadcast methods on Taishan
 Cluster to collect data and build speedup curve for different topologies.
- Participate in research in optimizing topology graph for cluster broadcasting.

Parallel Matrix Multiplication Research Guided by Prof. Yuefan Deng

Stony Brook, NY, Stony Brook. University (Dec 2017 - Present)

- Proposed an algorithmic group that covers Cannon's. BMR, SUMMA, distributed Strassen's method for scalable parallel large-scale matrix multiplications.
- Currently as the second author working on paper deft to generate a function
 which aims to collect the existing method and predict the future parallel matrix
 multiplications' methods.

Summer on Campus Internship

<u>Team A.I.R (International Student Registration Team)</u>

Stony Brook, NY, Stony Brook University (Summer 2016 and Summer 2017)

- The senior leader of the group.
- Assist new international student registration.
- Responsible for training new employees and organize teamwork.
- Proposed and create official WeChat account for more efficient communication with Chinese international incoming students.

• Orientation Leader.

On Campus Food Service

Stony Brook, NY, Stony Brook University (Oct 2015 – May 2017)

- Food Service at Campus Sac restaurant.
- Earned FSA (Faculty Student Associate) Scholarship.