

Xudong Liang (Brandon)

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EDUCATION

Columbia University

New York, NY

Master of Science in Computer Science, NLP Track

August 2019-December 2020

- Coursework: Machine Learning, Natural Language Processing, Operating System, Analysis of Algorithm, Advanced Spoken Language Processing, Practical Deep Learning System Performance, Speech Recognition, Cloud Computing

Davidson College

Davidson, NC

Bachelor of Science in Mathematics, Minor in Computer Science

August 2013-December 2016

- Major GPA: 3.6 General GPA: 3.5 *Cum Laude*
- Relevant Coursework: Number Theory, Modeling; Data Structure, Discrete Structures, Data Visualization-JS/D3, Computer Organization, Machine Learning, Concurrent and Parallel Programming, Analysis of Algorithm

RESEARCH

Columbia Speech Lab

New York, NY

Charismatic Speech - Web Scraping for Politician Speech

September 2019-May 2020

- Collected & analyzed politicians' speech data on charisma perception with Professor Julia Hirschberg

WORK EXPERIENCE & INTERNSHIP

Columbia University

New York, NY

Course Assistant

September 2020-December 2020

- Grades homework and project assignments, holds weekly hour office hours and answers student questions for COMS 6998 Practical Deep Learning System Performance for Professor Parijat Dube during Fall 2020

Amazon

Cambridge, MA

Applied Scientist Intern

June 2020-September 2020

- Transformer-based (BERT) Multi-Tasking Dialog State Tracking research @ Alexa AI-Natural Understanding
- [Presentation](#) at the Closing Ceremony of [2020 JHU JSALT Workshop](#) - [Chat/Dialogue Modeling and Evaluation](#)

Tresata

New York, NY

Solutions & Data Engineer

February 2017-April 2019

- Automated end-to-end data solutions for financial institution clients (e.g.: HSBC) using Hadoop, Spark, Scala and proprietary data profiling, entity resolution & interactive front-end software powered by Elasticsearch
- DevOps: Quality Assurance in Production, Software (Solution) Upgrade in Deployment & Vendor Support

Tresata

Charlotte, NC

Summer Internship - Solutions Engineer

June 2016-August 2016

- Trained on Hadoop Eco-System and Hadoop Distributed File System in command line environment (bash scripting, vim editing), MapReduce (e.g. Scalding) and functional programming language, Scala
- Research Project: Analyzed the effectiveness of Consumer Finance Protection Bureau (CFPB) on consumer finance (mortgage) using HDFS and internal data profiling & data delivery software powered by Elasticsearch & Kibana

PORTFOLIO

GITHUB

<https://brandonliang.github.io/portfolio.html>

<https://github.com/BrandonLiang>

SKILLS

- **Programming Language & Technical Skill:** Python (PyTorch, Keras, Scikit-Learn, Pandas, PySpark, Numpy, Matplotlib, NLTK), Git, Linux Bash, AWS, Hadoop, Spark, Scala, Elasticsearch, Vim, SBT, Scrum (Jira), MATLAB, Java, HTML, JavaScript, C.
- **Certified Scrum Master** by Scrum Alliance
- **Language:** Chinese (Mandarin)
- **Hobby:** Basketball, Soccer (Football), Photography