

## Xudong Liang (Brandon)

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<https://www.linkedin.com/in/xudong-brandon-liang>

### 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, Math Modeling, Data Structure, Discrete Structures, Data Visualization-JS/D3, Computer Organization, Machine Learning, Concurrent and Parallel Programming, Analysis of Algorithm

### RESEARCH

#### Columbia DVMM Lab

New York, NY

Research Assistant

September 2020-December 2020

- Multimodal (Video & Text) Transformer for Schema Induction

### 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-Tasked 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