Long Pham
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Education

The University of Chicago (Chicago, IL)
- **Bachelor of Arts, Honors**, Economics, June 2017
  - Thesis: Consumption Inequality in U.S. Urban and Rural Households
- **Bachelor of Science,** Computer Science, June 2017
- **GPA:** 3.65/4.00
- **Honors:** Dean's List (2013-14, 2014-15, 2015-16, 2016-17)
- **Relevant Coursework:** Networks, Machine Learning, Honors Theory of Algorithms, Discrete Mathematics, Linear Algebra, Statistical Models and Methods, Money and Banking, Data Visualization, Econometrics, Time Series, Databases, Mobile Computing, Functional Programming, Usable Security and Privacy, Game Construction

Brandon Valley High School (Brandon, SD)

Honors and Awards

CME Code Up!, *Most Valuable Player,* awarded July 2016
- Proposed, implemented, and presented an internal forum to coordinate informal lighting talks promoting emerging technologies, low latency programming and internal services

CME Group Futures Trading Challenge, *Winner,* awarded July 2016
- Traded futures on a trading platform provided by the CME Group using real market data
- First among 60 technology interns and fourth among all 160 CME Group interns

QuestBridge National College Match Scholarship, *Recipient,* awarded December 2012
- Fully funded scholarship to study at the University of Chicago based on academic performance and leadership

Experience

The University of Chicago Department of Economics (Chicago, IL)
Computational Research Assistant, October 2016-June 2017
- Contributed to a Python library that selects the composition of assets in a portfolio based on characteristics of firms in the production network of the asset (Markov processes, logistic regressions, sciPy, numPy)
- Parsed 10-K and other SEC reports to determine the degree of relevance of natural disasters in the production of commodities of eight different industries using natural language processing tools (NLTK, spaCy)

CME Group (Chicago, IL)
Embedded Software Engineering Intern, June 2016-September 2016
- Analyzed large market network traffic data from the CME Globex trading platform and determined the causes behind high latency within Globex through time series correlation analysis (sciPy, numPy, matplotlib, pandas)
- Improved scalability and speed of the CME Globex load balancer by reducing latency in market order arrivals through modifying kernel modules in FPGAs

Computer Science Instructional Laboratory (CSIL) (Chicago, IL)
System Administrator, April 2015-June 2017
- Ensured the stability of 50 system images on 50 OS X machines (Django, Ansible, Jenkins)
- Developed and maintained software to manage and automate daily laboratory operations such as automatic reminders and schedules through Ansible

The University of Chicago Department of Computer Science (Chicago, IL)
Teaching Assistant and Grader, October 2015-June 2017
- Evaluated and commented on the efficiency and structure of peer programming assignments
- Graded assignments for Computer Science with Applications (CS 121), Introduction to Computer Science (CS 151, CS 152), Networks and Distributed Systems (CS 233), and Data Visualization (CS 239)

Activities

Crisis Director, *Chicago Model United Nations,* The University of Chicago, May 2014-April 2017
- Created and moderated engaging, in-depth political and economic scenarios for delegates to discuss

Skills

Computer: Microsoft Office, C, R, Java, Python, STATA, Lua, Bash, Javascript, SQL, Unix, Linux, Matlab, Windows, mySQL, Ansible, Elm, Scheme
Frameworks and Packages: pandas, flask, numPy, NLTK, node.js, spaCy, luigi, sciPy, django
Language: Fluent in Vietnamese and English
Special Interests: Model building, chess, badminton, video games