

Timothy K. Paine

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Education

Columbia University in the City of New York — New York, NY

Fu Foundation School of Engineering and Applied Sciences

M.S. in Computer Engineering — 2015

B.S. in Computer Engineering, *Magna Cum Laude* — 2015

Columbia College

B.A. in Computer Science/Mathematics — 2015

Sophia University — Tokyo, Japan — Summer 2011

Work Experience

J.P. Morgan

Vice President - Athena Core

March 2016 - Present

Develop real time analytics platforms (**Python, C++, Java, Javascript**)

Third Party Integrations (Jupyter, Zipline, Pyfolio, Theano, Tensorflow)

Library build systems (Intel icc/fort, mkl, VTune, gcc, ATLAS)

MayStreet

Software Engineer

July 2015 - January 2016

Developed low latency market data and order entry systems for

North American, European, and Asian exchanges (**C++, C#, Java**)

Developed market data analytics platforms for analyzing market

micro-structure via colo-captured pcap data (**Python, C++, and R**)

Columbia University

Adjunct Associate Professor

Summer 2015 - Present

ENGI1006 Introduction to Computing for Scientists and Engineers (**Python**)

COMS3101 Programming Languages - **Python**

COMS3101 Programming Languages - **C++**

COMS1005 Introduction to Computer Science and Programming in **Matlab**

COMS3136 Essential Data Structures in **C** and **C++**

CSEE3827 Fundamentals of Computer Systems

Credit Suisse

Equities/Quantitative Analyst – Tokyo, Japan

Summer 2014

Built predictive models for company earnings and price movement

Leveraged data mining, machine learning, and wavelet analysis (**R, Python**)

IBM

Software Group

Summer 2013

Developed and tested front ends for B2B applications (**Python, javascript**)

Gained experience in Agile development methodology

Publications

Q100: The Architecture and Design of a Database Processing Unit.

L.Wu, A. Lottarini, T. Paine, M. Kim, K.Ross

ASPLOS 2014: Nineteenth International Conference on Architecture Support for Programming Languages and Operating Systems. **IEEE Micro Top Pick.**

References

Available upon request