

Timothy K. Paine



tim.paine.nyc



[timkpaine](https://github.com/timkpaine)



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NYC

Experience

Present

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Feb 2022

Point72

Central Research Team - Cubist Systematic Strategies

- Building out centralized technology, research, and trading teams
- From infrastructure to UI across all asset classes and teams

Present

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May 2015

Columbia University

Associate in Computer Science (Faculty)

- Courses include languages, algorithms and data structures, systems, and software engineering

Dec 2021

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Nov 2020

IEX

Head of Software Engineering - IEX Cloud

- Established engineering best practices on a rapid growth team
- Overhauled all aspects of the software development lifecycle
- Led feature developments for existing and new product verticals

Nov 2020

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Mar 2016

J.P. Morgan

Vice President - Athena Core

- Led development of a cloud research environment for ~1500 developers, quants, and traders
- Developed high performance applications for real time post trade analytics
- Overhauled core systems, components, and processes for development and integrations

Jan 2016

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Jul 2015

MayStreet

Software Engineer

- Developed low latency market data and order entry systems for equity and options exchanges

Education

Columbia University

B.A. Computer Science/Mathematics

B.S. Computer Engineering *Magna Cum Laude*

M.S. Computer Engineering

All degrees completed concurrently

Projects

Helped established OSS organizations at J.P. Morgan and Point72, contributor/maintainer of many large scale open source projects.

Media

Production Notebooks | JupyterCon 2020 | tim.paine.nyc/talks/jupytercon

Beyond Spreadsheets | NYC Data Council 2020 | youtu.be/PYTVU4A_3Kc

JPMorgan's requirement for new staff: coding lessons | Financial Times

JPMorgan's Python training guide for analytics and traders | [efinancialcareers](https://efinancialcareers.com)

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.***