

# Timothy K. Paine

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## Experience

Present  
|  
Feb 2022

### Point72

Central Research Team - Cubist Systematic Strategies

- Building out new centralized technology, research, and trading teams
- From infrastructure to UI across all Portfolio Managers and all lines of business

Present  
|  
May 2015

### Columbia University

Associate in Computer Science (Faculty)

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

Dec 2021  
|  
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  
|  
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  
|  
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

Established OSS organizations at IEX and J.P. Morgan, active contributor/maintainer of several large scale open source projects, most notably for the Jupyter and FINOS organizations

## Media

**Production Notebooks** | JupyterCon 2020 | [tim.paine.nyc/talks/jupytercon](http://tim.paine.nyc/talks/jupytercon)

**Beyond Spreadsheets** | NYC Data Council 2020 | [youtu.be/PYTVU4A\\_3Kc](https://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.***