



# Joseph Caulfield



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## Education

Bachelor's Degree - Finance	University at Buffalo	08/2013 – 05/2017
Coursework - Computer Science	University at Buffalo	08/2017 – 05/2019

## Work Experience

Jupiter Group	Developer	01/2019 – present
Building & deploying powerful applications to assist investors & traders with analytical procedures and firm insights. Users can call scripted tools such as intrinsic valuation, competition analysis, and news summaries from a chat server. Programs provide users with daily insights into big potential market movers and trading/investing opportunities.		
Terrain	Developer	04/2015 – 01/2019
Implemented business insight software to assist managers and enhance company's performance. Database improvements yielded an increase in profit margins of over 20% and cut slack costs drastically. I founded this company myself, our niche being powerful data analytical capabilities and insights into demographics.		

## My Stack

JavaScript	Developing web applications using the <b>React</b> framework, writing both <b>vanilla JavaScript</b> and <b>JSX</b> . Experience designing and bringing user-friendly themes to applications using <b>HTML</b> and <b>CSS</b> . Providing full-feature front-ends and user interfaces for full-stack applications.
Python	Harnessing powerful <b>data science libraries</b> to analyze <b>big data</b> and model helpful <b>visualization tools</b> . Writing <b>fully-automated</b> black-box <b>algorithm trading programs</b> capable of unsupervised securities trading. Deploying reinforced learning methods across big data including <b>APIs</b> of stock market data and news. Interfaced with <b>Apache Spark</b> and the <b>Hadoop ecosystem</b> to boost machine learning tactics.
Java	Designing & building financial market applications such as virtual advisors and stock screeners. Developing cross-platform applications, taking advantage of Java's "build once use anywhere" concept. Crafting scalable middle to back-end software using <b>Spring Boot</b> , <b>Maven</b> and <b>Gradle</b> .
SQL	Designing and deploying full-scale databases from scratch for business intelligence. Implementing back-end memory banks and data storage structures for full-stack applications. Writing hybrid code in Python & Java to interface with databases such as <b>MySQL</b> and <b>MongoDB</b> .
AWS	Taking advantage of <b>cloud computing</b> to provide automated solutions to users through chat servers. Experience pushing Python, Java, and full-stack applications to <b>lambda functions</b> to be run serverless. Enabling powerful applications with <b>distributed databases</b> for faster access to back-end memory.

## Other Relevant Skills

Project Management	Creativity & Design	Problem Solving	Business Acumen
Customer Satisfaction	Firm Valuation Tactics	FX, Crypto, Equity, Options	Technical Analysis

Check out my GitHub!



<https://github.com/jpcaulfi>