Benjamin T Jackman

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Increasing the efficiency of systems of people and machines.

⌘ EXPERIENCE

CGTA, Chicago — *Founder, Managing Partner* [2009 - PRESENT]

Set the vision for and oversaw all aspects of the company's autonomous trading operations, growing our firm to approx. 20 employees, while emphasizing automation, well-defined procedures, empowering interfaces, robust risk controls, and a smarts-over-speed approach to trading.

Coordinated firmwide goals with vendors and investors and among our trading, devops/IT, quant/data science, and software engineering teams, and fostered collaboration by introducing standups, continuous delivery, and code/configuration/trade reviews.

Wrote well over half a million lines of code in a variety of languages (Scala + ScalaJS, Java, JavaScript, TypeScript) for our automated trading platform featuring visualizations, easy trader configurability, spoof detection, compliance, and direct connectivity to several exchanges.

EV Financial, Chicago — *Founder, Managing Partner* [2007 - 2009]

Set the vision of and oversaw all aspects of the company's operations.

Designed algorithmic strategies and developed a Java platform (called Artemis) to execute, review, and visualize the trades of those strategies.

Taught our traders and engineers to use, support, and further develop Artemis to do market making and basis trading across multiple exchanges and products.

Allston Trading, Chicago — *Trade Developer* [2004-2006]

Helped grow the equities desk's daily pnl by advising traders on strategy and designing and programming a multi-ECN execution engine in Java.

Adapted software and strategies for market making and basis trading FX markets.

Wrote C++ marketdata parsers for the ITCH protocol to reduce mean CPU usage to below 1% and significantly decrease latency.

DRW Trading, Chicago — *Software Engineer* [2003-2004]

Wrote a UI in C++(MFC) and an automated delta hedger in C# for options trading increasing by >100x the count of options a trader could manage.

⌘ EDUCATION

University of Illinois, Urbana-Champaign – *B.S. Computer Engineering* [Class of 2002]

⌘ SKILLS

Leadership and management.

High frequency trading strategy / system design and optimization.

Devops and full stack software engineering.

⌘ PROJECTS

Several full stack low latency autonomous algorithmic trading platforms.

Automated administration of Linux desktops and servers (local, exchange co-located, and AWS EC3) with Ansible.

A very fast and accurate simulator for FIFO markets (e.g. 1 day of CME Treasury Futures in 1-30+ secs per CPU core).

A local scaling out to AWS data infrastructure for realtime and historical trade analytics and data science.

Automated and improved strategy optimization using machine learning (XGBoost / sklearn) and SVG/WebGL visualizations.

CGTA/open + CGTA/otest

Looty! a Chrome extension.

Scalide a Scala interpreter.

⌘ TECHNOLOGIES

AWS, Ansible, D3, FIX, Git, Jenkins, JQuery, Linux, MongoDB, PostgreSQL, React, SBE, SBT, three.js, Webpack, XGBoost.

⌘ LANGUAGES

Proficient:

Java, JavaScript, Scala + ScalaJS *(Wrote >550K LOC at CGTA, perhaps more Scala than any other human on Earth :)*, TypeScript.

Will happily remaster:

C++, C#, CoffeeScript.

Use as needed:

BASH, Python, SQL.