

I'm an engineer looking to bring a technology background to an equities trading desk

Skills

Markets

Summary

- Supported PMs across global index rebal, European ECM, global macro and latency arb
- Technology career spanning three multi strat hedge funds and a mutual fund
- Strong knowledge of US & UK market structure and trading modus operandi

Trading experience

- 3y margin PA experience trading discretionary US equities and futures + fx balancing
- Built mature systematic quant infrastructure in a large homelab

Infrastructure

Data and observability

- Built a monitoring stack with beautiful visualisations, processing 2B+ samples/day
- Built a custom alerting system to “speak” alerts to traders’ and engineers’ cell phones
- Good knowledge of both time series and relational databases

Kubernetes, HPC and quant tech

- Designed and built purely on-premises k8s deployments
- Well-rounded grasp of containerization and cloud-native application architectures
- Familiar with Airflow and Kafka for data pipelines

Linux

- Excellent grasp of the Linux kernel, major packages, OS tuning and system debugging
- Strong grasp of server lifecycle management
- Studying for RHCE and RHCSA qualifications

Networking

- Familiar with traditional and software-defined networking, including eBPF and VxLAN
- Built inter-site networks and delivered multiple data centre buildouts
- Familiar with major US and UK equities and commodities trading sites

Hardware

- Strong grasp of most hardware needed to build a low latency trading business
- Published successful short theses on overvalued vendors at blog.abctaylor.com

Development

Languages

- Fluent in Python, SQL and shell scripting

DevOps

- Built sophisticated CI/CD pipelines for production environments
- Container orchestration specialist

APIs and automation

- Automated 10,000+ server environments with Ansible and Puppet
- Built secure APIs with FastAPI and SQLAlchemy

Soft skills

Overview

- Excellent time management and attention to detail from working on trading floors
- Worked for US-based teams alone from London as a self-starter

Employment

- 2024 – present **Lead Infrastructure Engineer – T. Rowe Price**
- Lead Linux engineer for the fund – a highly hands on role building greenfield infra
 - Specialist for observability, containers and on-premises workloads
 - Designing and delivering large IaaS solutions to the firm from our own data centres
- 2022 – 23 **Vice President, Head of Linux Engineering – Eisler Capital**
- Delivered worldwide architecture of the firm's Linux systems
 - Built the firm's monitoring stack from scratch, covering core infra to trading strategies
 - Built an "alerts-to-speech" tool used by traders, strats and infra staff
 - Migrated all trading servers to a different Linux distribution without downtime
 - Debugged production issues across storage, networking and prop trading apps for PMs
 - Directly involved in budgeting, compliance, audits and business strategy
 - Co-ordinated vendors and managed projects for global network expansions
 - Contact point for systematic PMs requiring custom solutions for their trading strategies
- 2019 – 22 **Systems Administrator – D. E. Shaw & Co.**
- Front office trading systems support for PMs and Executive Committee
 - Led a data centre buildout and global network expansion in London and Luxembourg
 - Managed hundred-petabyte-scale parallel storage and a global network covering low latency systems, arbitrage platforms and a quant simulation grid for many users
 - Owned and delivered London COVID-19 technology response
 - Managed critical incidents by coordinating engineers, managers and trading ops staff
 - Co-ordinated London response to a major unannounced firmwide DR test
- 2018 – 19 **IT Engineer – Rokos Capital Management**
- Trading systems support for the CIO and all other desks, covering a broad tech stack
 - Fixed time-critical operational issues on broker platforms and internal systems

Education & Awards

- 2017 – 18 **Management (MLitt), University of St. Andrews** (*Distinction and Dean's List*)
- Built multilayer perceptron neural network model for dynamic personalised pricing
 - Thesis showed how shopping baskets could infer disposable incomes of retail shoppers
- 2014 – 17 **Computer Science (BSc), Durham University** (*II.i Hons., Course Rep, Faculty Rep for Science*)
- NLP dissertation, HFT hackathon winner; strong performance across all modules
 - Faculty Rep for UG Science (3rd Year), Course Rep for CS (1st Year and 2nd Year)
- 2009 – 14 **IGCSEs/A-Levels, King William's College/Ballakermeen High School** (*Deputy Head Boy*)
- 4x UKMT maths awards; school prizes for physics, chemistry, business and geography

Volunteering

- 2021 – present **Special Constable – Slough LPA, Thames Valley Police**
- Attend any job originating from a 999 call, such as domestic abuse and missing persons
 - Have gained considerable investigative, people management and communication skills