

# Mark Nuttall-Smith | Senior Software/Data Engineer

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## Experience

### Lead Developer / Team Lead – Flow Traders

Feb 2019 - Jun 2022

- Acqui-hired together with the software assets from Gridarrow. Responsible for global roll out of Gridarrow onto on-prem Kubernetes infrastructure. Managed a team of developers building a wide range of tooling on the Gridarrow platform.
- Architect and developer for a next generation real-time risk engine, built with Materialize, dbt, Kafka and Debezium, and integrating proprietary data with vendor data feeds from Bloomberg and MSCI.
- Created Kafka to TimescaleDB data pipeline for post-trade analytics by quant and trading users.

### Cofounder / CEO – Gridarrow

Jul 2017 - Feb 2019

- Co-founded and bootstrapped Gridarrow - "The missing server for Excel" - a multi-tenant cloud-native platform for streaming real-time data into Excel spreadsheets running on Google Cloud Platform.
- Python core library: user friendly API for sending data to Excel, AsyncIO streaming gRPC server.
- C# Excel add-in using Excel DNA and Reactive Extensions.
- Kubernetes operators (Golang) for control of Gridarrow CRDs, Kubernetes and Istio resources.
- Authn/Authz using OpenID Connect via Auth0 and Istio security policies.

### Senior Developer / Tech Lead – Optiver

Sep 2012 - Jul 2017

- Quantitative Trading team. Cloud architecture and big data engineering. Using AWS, Mesos, Spark, Docker and Python reengineered the trading unit's signal extraction, model training and backtesting pipeline.
- Trading Intelligence team. Tech-lead for team providing RAD/tactical tools to traders. Applications covered many areas of front office trading activity - risk, position management, operational monitoring, parameter automation. Python tools for interactive computing and log file analysis. C# tooling for charting and Excel data integration. Developed and provided technical training programs to traders.

### Senior Analyst Developer – HSBC

Mar 2006 - Oct 2011

- Prime Services Workstation - Architect/Tech lead for internal cross-functional Prime Services portal. Java/BlazeDs/Flex implementation

### Scientist – Inpharmatica

Sep 2001 - Nov 2003

- Core bioinformatics programmer in team responsible for the development of a genome browser application

## Education

- Master's degree, Bioinformatics, University of Leeds. 2000 - 2001
- Bachelor of Science (BSc), Applied Biology, University of Leeds. 1997 - 2000