

# SAMUEL LLOYD-LINDHOLM

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## Education

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### Portsmouth University

*PhD Mathematics*

**2021 – Current**

*Portsmouth, UK*

### MITx (Remote)

*Data Analysis in Social Science (Certificate)*

**2019**

*Remote*

### Imperial College (Remote)

*Mathematics for Machine Learning (Certificate)*

**2018**

*Remote*

### Cranfield University

*MSc Astronautics and Space Engineering (No award)*

**2006 – 2007**

*Cranfield, UK*

### Queen Mary, University of London

*BSc Theoretical Physics (2.1)*

**2002 – 2005**

*London, UK*

## Experience

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### Lloyd-Lindholm Ltd

*Director*

**2021 – Current**

*London, UK*

- Independent consulting on software engineering and mathematical methods for trading systems.
- General software development, Go-lang, Python, back-end platforms, low-latency and high frequency systems.
- Trading strategy development and analysis.

### Syndicate

*Founding Member & Partner*

**2014 – Current**

*London, UK*

- Leading platform development & design process of a distributed low latency platform for automated trading.
- Software development of key systems including machine learning system integration, protocol design, low latency & highly parallel systems and critical trading services. Documentation and maintenance of our software stack.
- Strategic business management including administrative, financial, legal and cross-jurisdictional matters.
- Mentoring of junior team members.

### OpenXO

*Platform Lead & Employee Nr.1*

**2013 – 2014**

*London, UK*

- In charge of platform development.
- Design, architecture and hands on work building the core platform.

### Betfair

*Platform Engineer*

**2010 – 2013**

*London, UK*

- Part of the core exchange engineering team tasked with developing and maintaining the betting exchange platform.
- Responsible for supporting business critical components also during out of hours.

### ITT-Visual Information Solutions

*Consultant & Developer*

**2007 – 2010**

*Bracknell, UK*

- Consulting and developing custom solutions in image processing for defence, scientific, environmental and medical applications.
- Sales work as part of consultancy process.
- Presenting seminars on technical topics and running workshops on programming techniques.

## Projects

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- Order book trading system** | *Golang, Python* **2021**
- Golang based trading gateway platform for interacting with trading venues.
  - Analysis of order book level data.
  - Foundational algorithmic design based on category theory and lattice theory.
- Esports market making bot** | *Golang, Python, SQL, NodeJS, AWS* **2021**
- Web scraping and API integration to collect live data of esports events and market prices.
  - Research into automated market making.
  - Central event storage system in PostgresQL.
  - System deployment on AWS including DB, service nodes, front end console and downtime warning elements.
  - Basic market making strategy analysis using Python.
  - Golang core service elements tasked with making real money trading decisions.
- Crypto currency feed** | *Golang, NodeJS, SQL, HTML, AWS* **2019**
- Created a Crypto feed aggregator that consumed many sources of Crypto price & trade volume data.
  - Data was stored in a PostgresQL database and queryable through the platform via exposed API calls.
  - Basic Python analysis of the price/vol data.
- Event Mapping system** | *Golang, VueJs, SQL, AWS* **2015**
- Mapping of sports events from disparate sources into an internal representation.
  - Storage in PostgresQL database.
  - Front end work for interacting with the data.

## Technical Skills

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**Languages:** Golang, Python, Java, SQL, JS

**Technologies/Frameworks:** Unix, AWS, Git/hub, VIM, LaTeX

**General:** Research, Documentation, Mathematics, Software Architecture & Design