

# JONATHAN O'HANLON

## Data Analyst

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### TECH STACK

</> Python | Keras | scikit-learn | TensorFlow | MySQL | PostgreSQL | R | Flask  
HTML | CSS

⚙ Linux | Windows | macOS

📦 Git | Gitlab | Docker | GCP | AWS | Power BI | Alteryx | MLFlow

### PROJECTS

- 2024 - Present **New Ledger**, Bluecrest Capital Management
- Currently aiding in the integration of a new internal ledger, by developing a workflow to identify discrepancies between the legacy and new system
  - Leveraging Python APIs for data extraction, reformatting, and merging, with data centralized in Alteryx to produce CSV files for Power BI dashboards
  - Trained an isolation forest model on historic ledger data, in order to identify anomalies in the new system. Common characteristics were able to be identified among the anomalies
- 2024 - Present **Rightmove?**, Personal
- Created an end-to-End Machine Learning Solution on AWS, used to predict new house prices. Model trained on web-scraped data from 'RightMove'
  - Automated model training pipeline, capable of evaluating multiple regression models, selecting the best performing model based on  $R^2$  score
  - Implemented CI/CD pipelines using GitHub Actions, and Amazon Elastic Compute Cloud to automate the deployment process. Using Docker to containerize applications
- 2023 - 2024 **Conversational AI**, Le Wagon UK Ltd
- Assisted Breathworks, a mindfulness training organization, to better understand their users based on their survey answers
  - Used deep-learning BERTopic and LDA to identify topics amongst user survey answers. The insights were used to fine-tune an open-source LLM chatbot
  - Practiced fine-tuning open-source LLMs through APIs, data engineering and version control workflows (Git), storing and pulling data from Google BigQuery
- 2023 - 2024 **Fund Risk Performance**, Bluecrest Capital Management
- Created a dashboard in PowerBI to help the middle office of Bluecrest Capital Management better understand risk positions held
  - Summarized the risk positions across each desk, split out across currency and product type. Interactive and able to be customized for each member of my team
  - Incorporated a SARIMA time-series analysis to forecast future risk values for individual desks, giving an insight into the absolute value of risk, as well as projected future variances

### PROFESSIONAL EXPERIENCE

- 2021 - Present **Business Data Analyst**, Bluecrest Capital Management
- Implement data focused tools to aid the middle office. Train new members of my team on Python and SQL, in order to utilize the latest data science and machine learning tools
  - Create workflows with Alteryx. Replacing manual processes and improving data processing
  - Utilize Power BI for improved data visualizations, introduced a new review of fund performance
  - Introduce new portfolio managers to the fund. Helping with ad-hoc analysis of their portfolio
- 2020 - 2021 **Financial Analyst**, Bank of America Merrill Lynch
- Monitored and reported on risks associated with Equity products
  - Developed Tableau dashboards to analyze profit and loss trends

### EDUCATION AND CERTIFICATION

- 2023 - 2024 **Data Science Bootcamp**, Le Wagon UK Ltd  
Accredited by BCS, The Chartered Institute for IT
- 2018 - 2019 **MSc Physics**, University College London  
Merit
- 2015 - 2018 **BSc Physics (Hons)**, Durham University  
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