

John Mathews Ph.D., ACA, MEng

Financial Data Scientist

Personal Details

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Passport: British

Location: Haarlem, The Netherlands

Technical competencies

Google Cloud Platform,
TensorFlow, Keras, SQL,
Python, Numpy, Pandas,
BASH, Git, HTML/CSS,
MATLAB, Vimscrip

Summary

John is a data scientist who specializes in financial and blockchain domains. He is the only data specialist at a cryptocurrency exchange and works with stakeholders across the business. He is an expert Python programmer and a self-taught software engineer. He is increasing his machine learning expertise by studying online.

John holds an engineering Ph.D. and is a chartered accountant (ICAEW). He writes about blockchain technology and data analytics at johnmathews.eu. John is curious and outgoing.

Employment

07.2018 - Present	Blockport , Amsterdam	Data Scientist
	I design, create and maintain internal data tools for a fin-tech startup. As the only data specialist, I am delivering tools to provide business insights including; management information, fraud analysis, tax reporting, KPI tracking, regulatory compliance, marketing and growth performance.	
	I work closely with stakeholders across the business including back-end, founders, support, finance, DevOps (CI/CD) and growth teams.	
09.2017 - 06.2018	Anaheim Consulting , Remote	Consultant CFO
	Consulting for a crypto tech startup, I delivered the technical design and execution of a novel fundraising method, and led investor relations through a funding round.	
04.2014 – 09.2017	PwC, Data Assurance , London	Senior Associate
	Whilst working as a chartered accountant and external financial auditor of clients in banking and capital markets in London I executed the ETL engineering pipeline, and the analysis and visualization of large financial datasets. Data included consolidated and subsidiary ledgers to support statutory audits of public financial service providers, financial journals across complex corporate structures, credit books, revenue, and expenses records.	
	This required understanding of a client's operating environment and business reporting processes. Strong interpersonal skills and rapport building were required to work effectively and transfer and analyze data outside the client's organization.	

04.2010 – 10.2013	PARDEM Research Network , Vienna	Doctorate Researcher
	I designed, implemented and reported a groundbreaking investigation into the behavior of granular materials in increased gravities. A computational model was validated using a physical experimental model I created and tested. I developed extensive problem-solving and research skills whilst meeting complex goals. Collaboration and technical communication skills were honed through regular international conferences and published collaborative research.	

Skills and Competencies

- Advanced Python, Matlab, Shell, SQL, TensorFlow, Keras
- Machine learning - Support Vector Machines, Neural Networks, Logistic and Multivariate Regression
- Data engineering - extraction, transformation, loading, batching
- Data cleansing, wrangling, visualization
- Google Cloud Platform - big query, pub/sub, dataproc, dataflow, datastore,
- Technical design, communication and review
- Modeling of complex systems with experimental validation
- Management Information design and review.
- Financial audit and reporting
- Business appraisal and evaluation.
- Financial modeling of business processes incl. Revenue/Expenses, opportunity cost, depreciation, etc

Publications

- Technical articles on Blockchain, encryption and data analysis at www.johnmathews.eu
- Centrifugal Modelling of Granular Flows, Cabrera M, Mathews J. Wu, W., Eurofuge conference proceedings
- Model Tests of Silo Discharge in a Geotechnical Centrifuge, Mathews J. Wu, W., (2015) Powder Technology
- Investigation of Granular Flow Using Silo Centrifuge Models, Mathews J., (2013) Doctoral Thesis, Austrian National Library, Central Library of the University of Natural Resources and Life Sciences, Vienna
- Experimental Investigation of Flow and Segregation Behaviour of Bulk Solids in Silos Under High Gravity Conditions, Mathews J. et al., (2013) in Particle Based Methods III – Fundamentals and Applications, PARTICLES 2013, Stuttgart, Germany, 18-20 September 2013. International Centre for Numerical Methods in Engineering (CIMNE), 352 – 362

Education & Certificates

06.2019	Google Cloud Platform Big Data and Machine Learning Fundamentals - certificate	Coursera
05.2019	Deep Learning Specialization (5 Courses) - certificate	deeplearning.ai - Coursera
03.2019	Machine Learning - certificate	Coursera
04.2017	Chartered Accountant – ACA	ICAEW, London
10.2013	Doctorate degree – PhD “Investigation of granular flow using silo centrifuge models”	Universität für Bodenkultur, Austria
06.2009	Master’s degree – MEng (Hons) Civil and Environmental Engineering	University of Edinburgh, Scotland
06.2004	A-Levels Maths (A), Advanced Maths (B), Physics (A)	Shrewsbury Sixth Form College, England