Alex Wendland

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Personal Statement

I am an ethical data driven python programmer with a passion for automation, mathematics and solving problems. I have led projects, teams and organisations with a focus on sustainable learning, efficiency and communication.

Employment History

2023--Current

Engineer -- Man Group, London
- Scaled arrow flight implementation to handle 15 connections per second with a distributed architecture.
- Modeled and implemented a new data pipeline to increase brand taxonomy.
- Made critical distribution upgrade with no production outage with over 200 ETL pipelines owned by multiple different teams.
- Improved developer experience of repo with 80 active monthly users by introducing pre-commit and ruff.

2021--2023

Data Scientist/Head of Data -- CC Data, London
- Developed a data pipeline to process, store and analyse blockchain data bringing a new product to market.
- Developed a CI/CD pipeline for our data monitoring microservices using docker, github actions, Azure cloud storage and kubernetes.
- Wrote python micro-processes in docker containers to calculate metrics on over 100TB of data daily to solve customer questions.
- Set up and ran monthly educational seminars on blockchain data company wide.
- Formed a cross-team data organisation which focused on developing data infrastructure.

2020--2021

Civil Service, Science and Engineering Fast Stream -- Cabinet Office, London
- Project-managed high-profile technical reports with multiple stakeholders within the Advisory Council for the Misuse of Drugs: ACMD advice on consumer cannabidiol (CBD) products and Consideration of barriers to research: part 1.
- Organised the analysis of the departmental staff survey to derive key targets with the objective to increase inclusivity and diversity.

2015--2020

Researcher -- University of Warwick -- Department of Mathematics
- Won multiple awards whilst building a strong academic portfolio in leading journals such as Advances in Mathematics, Annals of Applied Probability and the Journal of Graph Theory.
- Worked with Centre for Science and Policy (NLP), Heathrow airport and Defence Science and Technology Laboratory (AI safety).
- Earned funding in 2013 from JISC to develop a virtual learning platform in django (python).
- Was an award winning teacher at all levels and formats: lecturing masters level courses to helping underprivileged A-Level students one-on-one.

Education

2023 -- current	Msc in Computer Science, **Georgia Institute of Technology**, Online OMCSC with specialisation in Machine Learning
2015 -- 2020	PhD in Mathematics, **University of Warwick**, Coventry ``Generalisations of Groups and Cayley Graphs'' under the supervision of Agelos Georgakopoulos
2011 -- 2015	Masters in Mathematics, **University of Warwick**, Coventry 1st Class Hons (91% average)
2004 -- 2011	Secondary school, **Beechen Cliff School**, Bath A Levels: Further Maths (A^*), Maths (A^*), Physics (A)

Key Skills

Developer-level languages:	Python and LaTeX
Working-level languages:	C, SQL, and JavaScript
Tools:	Git, Github actions, Google suite, Docker, Kubernetes, Obsidian, and Snowflake.
Transferable:	Problem solving, Project Management, and Communication.