Sanger Alexander Steel
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KEY SKILLS

- 5+ years experience with Python and its relevant ML & NLP libraries including PyTorch, HuggingFace, spaCy, Tensorflow, and scikit-learn
- 2+ years of professional experience creating MLOps end-to-end solutions using natural language processing
- Proficient in Google Cloud Platform (particularly Vertex AI / AI Platform), Git, Bash
- Professional working proficiency in Spanish

WORK EXPERIENCE

Chattr   2022 - Present
Machine Learning Engineer

Machine learning engineer for Chattr, an AI-powered hiring assistant startup based in Tampa, Fl. Solely responsible for Chattr's ML operations, including planning for, creating, maintaining and monitoring MLOps pipelines; using trunk-based development for the deployment and management of multiple model-serving endpoints, the latter leveraging transformer architectures including that of large language models for text classification, named-entity recognition, summarization, and text generation, additionally using burgeoning new techniques such as prompt engineering. Constantly consuming research in the field to try to improve business outcomes.

econscia   2021 - 2022
Machine Learning Engineer

Machine learning position following a 2 month-long internship at econscia, a carbon accounting startup based in London specializing in Scope 3 emissions reporting. Planned and developed the stack's Scope 3 emissions end-to-end solution for pre-processing client data, vendor processing, spend categorization using document similarity techniques, and emissions calculations.

CarbonCulture   2020 - 2021
Software engineer, Intern

Internship focusing on the development of the CarbonCulture stack using such software as Django, Git, uwsgi, Nginx, PostgreSGL as well as others for messaging and monitoring. CarbonCulture is a firm which focuses on working with clients to monitor their carbon footprint with games, apps and research tools.

Event Horizon Telescope   2019
Research Intern, Computational VLBI Polarimetry

· Specialized in developing and validating adaptive algorithms for polarimetric gains calibration and implementation of the calibration for the Event Horizon Telescope at the Harvard-Smithsonian Center for Astrophysics, and examining polarimetric gains calibration on data from the Global Milimeter VLBI array for the Event Horizon Telescope's website memo series.

Synthetic Optics   2018
Research Assistant, Computational Laser Physics

· Synthetic Optics internship at University of St. Andrews Department of Physics and Astronomy, specializing in optimizing the design of a saturable absorber for an integrated semiconducting laser, under Andrea Di Falco.

EDUCATION

University of St Andrews, Fife, UK   *2016 - 2020*
Bachelors in Physics with Honors
Upper second class honors
Recipient of Student Staff Council Vacation Award (2018)

FIRST AUTHOR PUBLICATIONS

S Steel, M Wielgus, L Blackburn, S Issaoun, MD Johnson. "Global calibration of instrumental polarimetric phase gains." 2019. *Event Horizon Telescope Memo Series*

Link here.