

Alexis Kirke

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PhD (AI) Python programmer. Maths degree. LLM, SQL, transformers, Selenium, Flask, Soup, Huggingface, Git, Agents, Prompt Engineering, RAG, Scikit-learn, Pandas, Numpy, PyTorch, Tensorflow, Django, AWS, Anthropic, OpenAI, Langchain, PyTest, JS, R, HTML, C++. 9 years' experience (consulting, small companies, large corporate, academic.) 4 years R&D management. Self-starter, team-player, excellent communicator (3*TEDx).

RECENT CLIENT PROJECTS

From	To	Project	Technologies	Client
Oct 2024	Now	Full-stack deployed Legal Document RAG for inconsistency analysis based on web-scraped rules in DB.	Python, JS, RAG, Web-scraping (Beautifulsoup), PostgreSQL, Flask	Upwork client C
Sep 2024	Sep 2024	Agentic Chatbot for Job Searches (WP deploy)	OpenAI, JS, Function Calling, REST APIs.	The Gig Societe
Sep 2024	Now	CV filtering for recruiter, and reformatting.	OpenAI, Python, Flask, Multi-shot learning.	Construction Consultancy Firm
Sep 2024	Now	Automated Film Screenplay Analyser. Flask Deployment.	OpenAI API, Python, Prompt Engineering, NLP, Flask, JS, HTML.	London International Screenwriting Competition
Aug 2024	Now	Automated generation of Audio dramas using ElevenLabs voices.	OpenAI API, ElevenLabs API, LLM, Python, Prompt Engineering, Various Sound Libraries	London International Screenwriting Competition
July 2024	Aug 2024	Natural Language interface to analyse carbon emissions of GPUs using offline LLM.	Included Python-coding prompts with auto-execution (agentic). Llama3 (offline), Ollama, LLM, Python, RAG, auto-Python coding (agentic)	HP (via intermediary)
June 2024	Now	Automated summary of UK local government health forms and video interviews.	AWS, BOTO3, Claude Sonnet, Python, OpenAI Whisper, LLM, Prompt Engineering	Confidential.
October 2023	Now	Visual Chunking and Fine-tuned Topic Detection using GPT-4 Vision and GPT-3.5.	Python, Prompt Engineering, Mega-prompts, OpenAI Finetuning API, BERT, Scikit-learn, Iterstrat, Pandas, Langchain, Matplotlib	Management consultancy tech company (via intermediary)
May 2024	May 2024	Quantum Computing AI Agent	Python, Langchain, D-Wave API	D-Wave Inc.

Apr 2023	Now	Fiction Judging with GPT-4 API assistance.	Python, Open AI API, Selenium, NLTK, AWS	London International Screenwriting Competition
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From	To	Project	Technologies	Client
Mar 2023	May 2024	For Film Industry research client. Reddit Scraping and Sentiment Analysis by Transformers	Python, Pandas, Matplotlib, Transformers / Hugging Face, Python, NLTK	QMCL
July 2021	Now	Paywall site to allow clients to run text through a DNN (trained by me).	Python, Flask, Tensorflow, NLTK, JavaScript, HTML, SimpleDB, SQL	London International Screenwriting Competition
May 2022	Apr 2024	Twitter/X and Reddit Scraping and Sentiment Analysis. For research client.	Transformers, Twitter/X REST API, Pandas	Neuro Directions
May 2023	Oct 2023	Review Topic Detection. Trained head on DistilBERT to recognise topics from customers. Zero shot BART. Synthetic data generation.	Python, Hugging Face, transformers, BART, OpenAI API, scikit-learn	-Omitted-
Apr 2023	May 2023	Text editor that detects who is typing and blocks non-authorised users.	Python, Pandas, Scikit-learn	-Omitted-
June 2023	Oct 2023	Clustering of non-tectonic seismic events.	h5py, Matplotlib, Scipy, Scikit-learn (k-means, PCA)	-Omitted-

CAREER HISTORY

2020-Pres.

Freelance Python / AI

Python and AI/ML (plus some R, Web, JS)

2019-Pres.

Senior Research Fellow (15% PT), University of Plymouth

Python and AI/ML.

2010-2019

(Senior) Research Fellow, University of Plymouth

2004–2010 **Diagnostic Systems Manager**, Invensys Ltd
Sound Recognition Research. Software Development Manager.

2000-2004 **Product Development (2001-2004) NeuVoice Ltd (Start-up).**
Speech recognition R&D Manager. 12 reports. Products to market.

1997-2000 **Instinet Equity Brokerage** (New York & London)
Quantitative Analyst (New York) (1999 - 2000)
Analyst/Programmer (London) (1997 - 1999)

EDUCATION

2007- 2011 **Ph.D. Music and Artificial Intelligence**, University of Plymouth

1993-1994 **B.Sc. Mathematics 1st Class Hons** (IMA Prizewinner), University of
Plymouth, Final Year **Average Exam Results: 94%**