

Senior Python AWS Engineer, **certified AWS Solutions Architect** with over ten years of experience in python, AWS and machine learning, built three tech startups. I have architected and built end to end enterprise python/AWS applications across industries including healthcare, retail and telecoms. **Creator of best-seller** full-stack python AWS course www.udemy.com/unicorn/

Relevant skills:

Python - 10 years

AWS - 8 years

Machine learning - 7 years

Professional background:

Ask AI (*Saas, startup*) - Python, node, OpenAI, AWS, chromadb

Founder, creator

- Sept - current
 - Creating vector embeddings of client-specific documentation
 - Reliable data retrieval for true, correct answers from OpenAI
 - Reference to urls to original documentation for ground truth
 - Integration to Atlassian and OpenAI APIs
 - QuickSight dashboard to represent semantic analysis of user questions

Lead Python AWS Engineer

BMW (*retail*) - Python, SQL, AWS

- Jun - Dec '23
 - Exploratory data analysis using python and SQL
 - Applying machine learning NLP techniques for deduplication
 - As a result created a pipeline to remove duplicate customers, resulting in improved customer experience for tens of thousands of customers
 - Produced Analysis and duplicate monitoring in AWS QuickSight

Senior Python AWS Engineer

Christies (*retail*) - Python (pandas, fuzzy wuzzy), Tableau

- Jan - Jun '23
 - Created internal tool for data quality monitoring
 - Designed and developed ETL data pipeline and tableau dashboard

Senior Python AWS Engineer

Frank Knight (*property*) - Python (Pyspark), GCP

- Nov '22- Jan '23
 - Big data deduplication with machine learning
 - Architected and developed the application from scratch and deployed, team of two

Founder/creator

AutoDS (*big data, startup*) - Python (pandas,pyspark, flask), AWS (serverless), OpenAI

- Nov '22 - Jan '23
 - Architected and developed automated big data cleaning and visualisation platform
 - Integrated OpenAI to allow non-technical users to ask questions about the data (using SQL/Athena to make the translated queries)

Head of Intelligence Platform

Trustonic ([telecoms](#)) - AWS, python

- Nov '21 - Nov '22 - Led a team of three to replace legacy Java system with AWS serverless (annual savings of > £300,000). Developed V1, CI/CD, IaC myself.
- Architected machine learning solutions for company
 - Hired and led international team of twelve for integrating ML solutions

Senior Python/AWS Consultant

Scale Factory ([cloud consultancy](#)) - Python, AWS, data science

- Jan - Nov '22
- Led various teams between 3-5 on agile projects
 - Acted as data science and AWS specialist for the consultancy
 - Represented the company in pitches, won multiple large clients and completed contracts between £100k-£500k
 - Final client (Trustonic) acquired my contract from Scale Factory

Python/AWS Lead Instructor

Mayden Academy ([education](#)) - Python, data science, machine learning (sklearn, Keras), AWS

- Jun '21 - Jan '22 - Created and delivered courses on python, data science, machine learning and AWS

Outfield technologies ([computer vision](#), [agritech](#)) - Python (PyTorch), AWS

Machine Learning Consultant

- Dec - Jun '21
- Mentored a three person team of junior machine vision and software Engineers. Launched initial product to early-stage customers.
 - Optimised application to estimate yield of orchards with drone imagery

Data Scientist

CorVista ([healthcare](#)) - Python/ML (pandas, numpy, sklearn, keras), AWS

- Mar - Dec '21
- Led a team of five senior data scientists to review and optimise existing healthtech machine learning model for FDA approval

Data Scientist

Lucida Medical ([computer vision](#), [healthcare](#)) - Python, PyTorch, Tensorflow, AWS

- Sept '20 - Mar '21
- Developed and optimised machine learning algorithm for identifying risk of prostate cancer

Featurespace ([finance](#)) **Software Developer** (Sept '19 - Sept 20') - Java, AWS. customer-facing developer for fraud detection with some of the worlds largest payment processors.

Rize ([mental health](#), [startup](#)) **Creator/Founder (Python and AWS)** (Nov '13 - Sept '19) - Created Java and Swift smartphone app with backend. Integrating data science and ML for mental health.

Amazon Web Services ([cloud / machine learning](#)) **Python/AWS researcher** (Oct '17 - Dec '17)- applying AWS machine learning algorithm to learn how to identify genres of paintings (python, AWS).

Education:

Certified AWS Solutions Architect Associate (Jan '24)

Artificial Intelligence, Pi School (Rome): Partnered with AWS for a computer vision project.

Cambridge University Business School: Accelerate Cambridge, training in tech entrepreneurship.

Zoology, University of Leeds (International BSc 2:1): Specialising in statistics

Memberships:

Institute for Engineering and Technology ([IET](#))

Leadership / interests:

- Founded and grew the Cambridge entrepreneurs wild swimming society to 20+
- Songwriter - published two albums ([spotify](#))
- Won best startup from Cambridge University and best tech social entrepreneur