

Lyle Simpson

Glasgow

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Work Experience

GlasgowPython Developer/Systems Engineer

Vistalworks

April 2019 to September 2021

- Creation and maintenance of AWS cloud infrastructure - S3, RDS, Route 53, ECS/ECR, ALB, EC2, CloudFront.
- Creating containerized Django APIs using Django REST Framework
- Creating frontend dashboards with React.js
- Development, optimization and maintenance of large PostgreSQL/TimescaleDB databases
- Writing analytical SQL queries over large-volume time-series datasets
- Mentoring junior developers in Python, SQL and Linux programming and operations

Python Developer

Trigger - London

April 2019 to October 2019

- Writing a dynamic image processing API using Django and the Python Imaging Library
- Django web application development (backend)
- Integrating backend APIs with front-end services
- Dynamic generation of PDF files using Python
- Lower-level image filtering and manipulation with OpenCV, Numpy and imageio
- Configuration and management of AWS EC2 instances hosting Django applications
- Migration of legacy services to AWS serverless stack (API Gateway, Lambda, DynamoDB)

Full Stack Developer/Data Analyst

University of Glasgow

January 2018 to April 2019

- Building, testing and maintaining Django web applications for clinical trials staff
- Writing Python and Bash scripts for automation of tasks
- Oracle database administration and schema creation.
- Analysis of data using Pandas, Matplotlib/Seaborn, and statsmodels

Software Engineer

RHA Technologies - Glasgow

April 2017 to January 2018

- Development of an in-house web-based CRM system using Python (Django)
- Centralizing data from disparate sources into a single PostgreSQL database
- Managing Linux Ubuntu servers hosting the application and the database
- Automation of business tasks using Python

Junior System Administrator

City of Glasgow College - Glasgow

June 2014 to April 2017

- Administration of Linux Ubuntu servers hosting web applications and relational databases
- Network and database administration with MySQL
- Bash scripting for task automation

Education

MSc in Data Science

University of Glasgow

2019 to 2020

BSc (Hons) in Computer Science

Glasgow Caledonian University

2013 to 2017

Skills

- Programming: Python, JavaScript/TypeScript, Go, Bash
- Data Science: Numpy, Pandas, Scikit-Learn, Matplotlib, Tensorflow, PyTorch
- Web Frameworks: Django, Flask, FastAPI, React, Next.js
- Database Systems: PostgreSQL, Oracle, MySQL, MongoDB, Neo4J, DynamoDB, Redis
- Cloud/DevOps: AWS, Azure, Docker, Git, Github Actions, Ansible
- Analytics: Apache Spark, AWS (EMR, Redshift, Glue), Power BI, ElasticSearch