

Luca Romagnoli

Conceptual Machines LTD

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Oct 2023 to Jul 2024	Senior Software Engineer	Citi
Developed a POC application for certifying Citi's internal IT solutions using Python FastAPI and Appian. The app implements a multistage workflow that resembles Citi internal certification process. The first stage is the collection of data from internal Citi Sources which are then validated against a proprietary technology for Risk and Controls validation. The following stages represent the internal approval chain with different actors involved. Led automation tools development for generating PowerPoint and Word reports, including an automated screen capture scraper for image collection.		
Tech Stack		
Python	FastAPI Pydantic Requests HTTPX Graphene PlayWright	
GraphQL		
Appian		

Mar 2023 to Sep 2023	Senior Software Engineer	Siemens
Worked on a project where a booking system developed in a mix of Java, MuleSoft Enterprise Service Bus (ESB) and NodeJS was being ported to a server-less, event-driven, Python AWS Lambda architecture. I have personally written key parts of the architecture for a File Processing system, an OOP integration with Oracle db and laid out the foundations for integration testing.		
Tech Stack		
Python	AWS Lambda powertools Pydantic Requests HTTPX	
Java	MuleSoft Enterprise Service Bus	
JavaScript		
AWS	Lambda Step Functions EventBridge S3	
Oracle		
MongoDB		
Git		
Gitlab		

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Nov 2022 to Feb 2023

Senior Software Engineer

[Zaizi - The National Archive](#)

I worked on a project with Zaizi and The National Archive in which I prototyped a Django Application integrated with a Keycloak Server for authentication and authorisation. I have implemented the application code and custom docker images for both resources.

Code is publicly available at

- <https://github.com/nationalarchives/da-ayr-webapp>
- <https://github.com/nationalarchives/da-ayr-auth-server>
- <https://github.com/nationalarchives/da-ayr-design-documentation>

Tech Stack

Python	Django mozilla-django-oidc python-keycloak pytest
Keycloak	
Docker	
AWS	ECS Cloudwatch
NodeJS	Bootstrap
Git	
Github	
Bash	
Github Actions	

Mar 2022 to Sep 2022	Senior Software Engineer	Wayfair
I was part of the ISC (International Supply Chain) team, where I helped build internal tools for order and transport management. The architecture was heavily based on GraphQL APIs and Kafka workers.		
Tech Stack		
Python	Flask Fast API SQLAlchemy Ariadne Graphene httpx pytest	
GraphQL		
Kafka		
Docker		
Kubernetes		
NodeJS	React	
SQL	PostgreSQL	
Bash		
Git		
Github		
Kibana		

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Sep 2021 to Feb 2022	Senior Software Engineer	JustEat
Part of Database-Storage-Infra-Engineering team. I worked on platform automation solutions to improve the reliability of JET's infrastructure. I used a wide range of technologies that are common in modern tech stacks. The last project I worked on before leaving was an automated pipeline built in Ansible, used to deploy an AWS RDS Database with Auditing option enabled. This was crucial to the business as it was a requirement for SOX compliance.		
Tech Stack		
Python	AWS Lambda powertools pydantic asyncio boto3 httpx requests pytest	
Ansible		
AWS	lambdas kinesis sqs rds cloudwatch	
NodeJS	Serverless Framework	
Docker		
Git		
Github		
Bash		
Grafana		
Prometheus		

Jan 2020 to Aug 2021	Software Engineer	Sainsbury's
I joined Sainsbury during the transition from monolithic to micro-services architecture. I had the opportunity to learn cutting edge technologies such as Kubernetes and Kafka and I had a lot of exposure to DevOps culture. I was part of the data product team and we were in charge of providing data services to internal and external stakeholders. I worked on and successfully delivered an ETL system that was critical to the business.		
Tech Stack		
Python	Asyncio aiohttp Flask boto3 requests PythonKafka Pytest	
Docker		
Kubernetes	helm charts	
Apache Kafka		
AWS	SQS EKS	
Git		
Github		
Bash		
Kibana		
Terraform		
CircleCI		
Flux		
CouchDB		

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Feb 2017 to Dec 2019	Python Developer	Mavens of London
<p>Mavens of London (now part of Kantar group) was a young and vibrant digital marketing agency where I met many talented people and learned a lot about Python and coding in general. We used to build web scrapers in Python, sometime also in NodeJS, and I have been involved in many ML and data driven projects. I had the chance to learn Pandas and many libraries from the data-science eco-system. I worked with several frameworks such as Airflow, Dashplot.ly, Flask and partially also Django. The last project I worked on before leaving the company was a concurrent web scraping system with a REST API that Data Analysts could use to gather data at large scale.</p>		
Tech Stack		
Python	Apache Airflow aiohttp asyncio beautifulsoup celery dashplot.ly Django flask Pandas pypeteer pytest requests scikit-learn selenium spacy	
NodeJS	PhantomJS Puppeteer	
Git		
Bitbucket		
Github		
Docker		
SQL	PostgreSQL MSSQL	
Bash		
AWS	EC2	
Linux	Ubuntu	

Mar 2015 to Jan 2017	Junior Developer	Empello
<p>My first job in the IT industry. I have been initially hired as Operations Engineer. I was in charge of running a system designed to monitor mobile advertisements. It consisted of a NodeJS scraper, a Python scheduler and some Python scripts for data processing. Here I had the opportunity to gain hands-on experience with Python 2.7 and become familiar with Linux, bash terminal and Git. One year into the role I progressed into a Junior Developer position where I finally built my first software solution: A web scraper made in Python 2.7, Selenium and PhantomJS. It helped the company to automate a task that was previously done manually and very time consuming.</p>		
Tech Stack		
Python	selenium pillow Django	
NodeJS	PhantomJS	
Linux	Ubuntu	
Bash		
Git		
Bitbucket		