

Angelo Caldeira

Summary

MSc Advanced Computer Science. I have 4 years of Contractor & Freelance experience as a Full Stack & Python developer. My experience includes various frameworks; FastAPI, Flask and Laravel (PHP). 3 Years of commercial experience in building software orientated around API Data Processing (Pandas and SQL), Automation & Visualisation (Python) and Web Development. Experience with AWS (provisioning and working with Lambda, EC2, S3).

Employment History

March 2022 – Present

Python Developer/Consultant (Contractor) | Anglo American

Key Responsibilities:

- Develop Python (3.7 – 3.11) software (Object oriented) for automating account creation, manipulation across SAAS services (Teams, Azure, GitHub etc..) & Data processing (Pandas, PandaSQL, SQLite)
- Maintain, optimise & write unit tests for large code bases (Asyncio, Threading, Pytest)
- Developed relational database reflecting company structure with frontend + backend to interface with it. SQLite manipulation in Python.
- Access reporting system (Python, Poetry & FastAPI)
- SAAS Service real-time status page – Display status of all SAAS services using their (Atlassian) APIs (Python & FastAPI)
- Git management & Agile development practices

January 2022 – March 2022

Lead Python Developer (Short-term Contractor) | Big Pond Digital

Key Responsibilities:

- Design & Develop an Automated Reporting System (Python 3.6+)
- Google Cloud Platform – APIs & Data Warehousing (PostgreSQL)
- Data Visualisation
- Deployment to Digital Ocean Linux Server
- Communication with Client for Requirements Scoping & Planning

September 2018 – 2022

Full Stack Developer (Contractor) | The McGarry Agency

Key Responsibilities:

- Python 3.6+ Development | AWS/Linux Server/Serverless Framework
- Google Analytics API (Python automation, Data Processing using Pandas & Visualisation)
- Database Design & Implementation (MySQL, PostgreSQL, Firebase)
- API Implementation & Deployment to AWS Lambda/Gateway
- Big Data management (Business KPI metrics & analysis with Pandas)
- Linux OS & Terminal experience
- Google AdWords Bidding Automation Scripts (JavaScript)

May. 2018 – 2022

Software Developer | Bella's Life Coaching (Part time | Retainer)

Key Responsibilities:

- Frontend & Backend application design – Core PHP
- Encryption key management and security
- AWS provisioning; LAMP Stack; NoSQL Database design

Education

2021 – 2022

University of Leeds, UK: Advanced Computer Science MSc

Key Modules:

- Artificial Intelligence & Machine Learning (Python + Pandas)
- Data Science & Data-oriented Software Development (Python + Pandas)
- Big Data & Cloud Computing | Virtualisation (Java) | AWS Lambda
- Serverless Deployment and Experimentation

Thesis & Masters Project:

Using Graph Theory to investigate Collective Intelligence in Video Games.

Key Applications:

- API management (Python) & Raw Data Processing (Pandas)
- Graph Theory, Visualisation and Statistical Analysis

2016 – 2020

University of Abertay Dundee, UK: Computing BSc (Hons) 1st Class

Key Modules:

- Data structures and Algorithms (C++); Languages & Compilers
- C# OOP using Microsoft SQL Server
- Software Engineering – C# Gamification Software
- Dynamic Web Development
- Mobile Applications – Android, Firebase (NoSQL)
- Professional Project – Cinema Booking System - PHP

Thesis & Honours Project:

Developing a Low-Cost IoT Smart Home Security System Using Commodity Products. (In Progress)

Key Applications:

- Mobile application development (Core PHP Backend)
- Raspberry Pi & Linux Kernel
- Python + NGINX

2014 – 2016

International School of Paphos, Cyprus

- A-levels: Computing, Mathematics, History
- Cypriot High School Diploma: 98%

Other Relevant Experience

2012 – Present

Computer building & Hardware diagnostics

Outline:

- Compatible component selection
- Constructing hardware
- Computer repair & hardware/software diagnostics

Nov. 2022 – Present

Research paper publication (in progress)

Outline:

- Working with a Professor in University of Leeds to publish thesis work

Skills and Achievements

- NCR Software Engineering Award – Top Student in Third Year for Software Engineering
- Guitar player of 13 years

References: Available upon request