

Alex Santonastaso

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PROFESSIONAL SUMMARY

Software Developer with experience in automation using Python and a passion for writing clean, efficient code and improving system performance. A quick learner who is always looking to expand his skills and stay up to date with new technologies. Enjoys working as part of a team of like-minded people to build reliable software and contribute to great products or services.

SKILLS

Programming Languages: Python, Java, C#, SQL

Tools & Frameworks: Selenium, NumPy, Pandas, Matplotlib, Git,

Software Development & Principles: Object-Oriented Programming (OOP), RESTful APIs, Agile Methodologies

Cloud & DevOps: Basic Cloud Computing knowledge (AWS, GCP), Docker

Interpersonal Skills: Problem Solving, Team Collaboration, Effective Communication, Bilingual in English and Italian

WORK EXPERIENCE

Intech Centre (National Careers Service Partner)

London, UK

Software Automation & Administrator

Jun 2024 – Present

- Implemented a **Python-based automation bot** using **Selenium** and **Pandas**, reducing repetitive administrative tasks and saving approximately 10 hours per week.
- Automated data entry, form submissions, and report generation, leading to a **record-breaking performance**.
- Managed enquiries, bookings, and scheduling for private courses and exams, maintaining smooth service delivery.
- Maintained records and generated reports to support **data-driven decision-making** and compliance requirements.
- Built **strong client relationships**, improving experience and satisfaction through effective follow-up support.

Queen Mary University of London

London, UK

Lab Demonstrator

Sep 2023 – Apr 2024

- **Offered individual support to students** in writing and debugging Python code for Machine Learning projects.
- **Helped students understand software engineering concepts**, including data structures and algorithms.

PROJECTS

Automated Facial Emotion Recognition

- Implemented facial emotion recognition using **GoogLeNet CNN**, achieving **high accuracy** on a deployment dataset and improving the model's capabilities.
- Prepared and pre-processed a FER dataset, including **face detection, face alignment, data augmentation, image duplicates removal**, and trained a second model for **recognising emotions in blurred images**.

Ethereum Blockchain Data Analysis

- Performed analysis on the raw high volume data of Ethereum blockchain by implementing a set of **Hadoop** and **PySpark** Map/Reduce operations such as aggregation, moving window technique.
- Implemented data visualisation using **Matplotlib** and **Seaborn** to present key insights and trends.

EDUCATION

Queen Mary University of London

London, UK

Master of Science in Big Data Science with Machine Learning Systems, Distinction

Jan 2022 - Jan 2023

Relevant Coursework: Machine Learning & Deep Learning, Big Data Processing, Cloud Computing, Data Mining

University of Westminster

London, UK

Bachelor of Science in Computer Science, First Class Honours

Sep 2018 - Sep 2021