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York, UK
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Beatrice Federici
Junior Full Stack Developer/ Software Engineer

Portfolio: </> Beatrix-droid.github.io
⬡ Beatrix-droid
in Beatrice Federici

Dynamic and results-driven Junior Full Stack Developer with a Master's degree in Mathematics and a strong foundation in Data Science, gained through a rigorous Data Science Bootcamp. With professional experience in web development (using React and ASP.NET Core), I am passionate about continuous learning and embracing new challenges. Additionally, I am a certified UiPath RPA developer with experience building industry-level automation solutions. A collaborative team player, I excel in mentoring and fostering a positive work environment.

Skills

Main Tools and Languages	• Python, C# with ASP.NET Core, Typescript with React, SQL, Git, Github & Github Actions, REST APIS (both building and consuming), Debian-based Linux distros, GCP, Docker and the fundamentals of Kubernetes, UiPath and the Reframework, LaTex
Additional Tools	• Selenium, BootStrap, Material UI, Tensorflow, Pandas, Jupyter Notebooks, Scikit-Learn, Flask
Quantitative Research	• Mathematical optimization, Mathematical Modeling, Matlab
Communication	• English, Italian (fluent in reading, writing and speaking), French (basic reading, writing and speaking)

Technical Experience

Junior Full Stack Developer at Liberty Global   **May 2024 – present**

- Contributed to the development of a web application using a React/TypeScript frontend, interfacing with backend ASP.NET Core API endpoints.

- Developed and maintained API endpoints in ASP.NET Core to handle complex business logic and data interactions.

- Created reusable frontend components using React and Redux with TypeScript, ensuring seamless integration with backend services and API data.

- Worked with PostgreSQL and BigQuery for data storage and querying, optimizing queries for performance and scalability.

- Built Docker files for deployment on GCP Cloud Run, streamlining cloud function deployment and ensuring consistent environments across development and production.

- Worked in an Agile environment, participating in daily standups, using Jira for task tracking, and utilizing Git for version control and GitHub Projects for project management.

- Collaborated with cross-functional teams to implement new features, troubleshoot issues, and improve overall app performance and user experience.

RPA developer at The Software Institute & Liberty Global   **Sept 2022 — April 2024**

- experience in using python, C#, javascript, SQL and UiPath in a professional capacity for 2 years.
- Obtained UiPath Certified RPA Associate v1.0 certification.
- Designed and configured RPA processes using UiPath Studio, Orchestrator, and C, alongside version control with GitHub.
- Produced and maintained comprehensive solution documentation, including high-level design and process definition documents.
- Developed developer documentation to enhance automation team efficiency, including documentation of previously undiscovered APIs for improved process performance.
- Collaboratively engineered a unified Power Apps Application integrating leave booking, office attendance, and expense submission functionalities.
- participated in a week-long GCP bootcamp, mastering cloud tools like buckets, cloud functions, and machine learning model training.
- Assisted DevOps developer in Kubernetes learning, gaining practical experience with kubectl and Kubernetes YAML file creation for web applications.
- Worked for Liberty Global on behalf of The Software Institute (they deployed me there)

Freelance Developer: Web Trivia App Development for LOKAL   **1 Sept 2023 — 7 Oct 2023**

- Developed and deployed an engaging web trivia app using Vue.js, TypeScript, and a Web API, enhancing LOKAL's audience interaction.
- Dockerized the application for efficient deployment and scaling, then pushed it to Docker Hub for easy access and management.
- Authored Kubernetes configuration files for seamless orchestration, ensuring automated deployment, scaling, and operational efficiency.
- Utilized Render Cloud for deployment, taking advantage of its scalability and reliability to ensure optimal app performance. Worked closely with LOKAL stakeholders to align app features with business goals, iteratively refining the product based on feedback.

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Le Wagon London / Data Science Bootcamp   **January 2022 — March 2022**
- intensive coding bootcamp to learn Data Science with Python.
- Data Analytics with SQL, BigQuery, Pandas, Numpy, and Matplotlib
- Statistics with Scipy, Seaborn and Statsmodels
- Machine Learning with Scikit-learn; Deep Learning with TensorFlow Keras
- developed Data Products with Google Cloud Platform, ML Flow, Flask, Heroku and Streamlit.

Free Code Camp Certifications   **March 2021 — July 2021**
- Earned the Scientific Computing with Python certification from freeCodeCamp, demonstrating a strong foundation in Python programming.
- Independently acquired proficiency in back-end web development technologies, including Flask, SQL, C, Git, GitHub, Heroku, as well as front-end technologies such as HTML, CSS, and Bootstrap. and developed several projects, including:
  - A Flask-based web scraper for data collection and processing.
  - A Tkinter-based weather application, providing real-time weather updates.
  - A RESTful API for UK wild plants, utilizing MongoDB for data storage and the FASTAPI
  - framework for building efficient APIs.

Masters in Mathematical Sciences   **September 2019 — June 2020**
- technical modules: Numerical approximations to partial differential equations, Complex and asymptotic analysis, Hilbert Spaces, Analytic number theory and Lie algebras.
- learnt MATLAB by finding numerical approximations to PDEs.
- Individual project on Fourier series in L^p spaces

Chef de partie at Manahatta, York   **Sep 2020 — Dec 2021**
- Worked with the chef brigade. I was responsible for aiding them in the food preparation, as well as keeping kitchen equipment clean and tidy and up to sanitary standards..

EDUCATION

Master In Mathematical Sciences, *University of York*	2019—2020
BSc in Mathematics and Philosophy, *University of York*	2016—2019
BCS Foundation Certificate in Business Analysis V4.0, *Pearson VUE*	24 September 2022
UiPath Certified RPA Associate v1.0 , *Pearson VUE*	9 November 2022
Data Analysis with Python certification, *Free Code Camp*	March 2023
Scientific Computing with Python certification *Free Code Camp*	July 2021
International Baccalaureate, *St. Stephens School, Rome, Italy*	2012 — 2016

ACTIVITIES

Peer Assisted Learning tutor for the Department of Electronic Engineering, University Of York	2017 — 2018
Peer Assisted Learning tutor for the Department of Philosophy, University Of York	2017 — 2018
Volunteer in the Students in Schools Scheme for the York Maths Excellence Club	Jan 2018—Jun 2018
Tutor in Mathematics, St. Stephens School, Rome, Italy	2015—2106