☎ (+44) 7933 227501
York, UK
✉ beatrice.federici123@gmail.com

Beatrice Federici
Full Stack Developer/ Software Engineer

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

Dynamic and results-driven 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

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

- Developed a web application for Accounts Receivable, reducing payment reconciliation time by 70

- Worked with React (TypeScript), ASP.NET Core, PostgreSQL, and BigQuery for optimal performance and scalability.

- Built Docker containers for seamless GCP Cloud Run deployment and consistent environments.

- 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**

- Developed a unified Power Apps application streamlining leave booking, office attendance, and expense submission, eliminating the need for multiple portals and simplifying employee experience.
- Designed and configured RPA processes using UiPath Studio, Orchestrator, and C#, alongside version control with GitHub. Projects I worked on included:
  - Company Data scraping/extraction from ScanMarket (total hours saved: 100)
  - Automated part of the Accounts Receivable Telephone & Internet Banking Payments Reconciliation process (total ftes saved per week: 2)
- Produced solution documentation (high-level design, process, and developer docs) to improve team efficiency.
- Participated in a GCP bootcamp, gaining expertise in cloud tools, machine learning model training, and cloud functions.
- Gained hands-on experience with Kubernetes, including kubectl and YAML file creation for web applications, while assisting a DevOps developer
- 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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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

EDUCATION

Data Analysis with Python certification *Free Code Camp*	March 2023
Data Science and Machine Learning Bootcamp, *Le Wagon London*	January 2022 — March 2022
Scientific Computing with Python certification" *Free Code Camp*	July 2021
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 AND OTHER WORK

Chef de partie at Manahatta, York	2020 — 2021
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