

I'm an experienced developer with a Master's degree in Mathematics and a strong foundation in Data Science, gained through a rigorous Data Science Bootcamp. I have a record building industry level automation solutions (I'm a certified UiPath RPA developer) and full stack development with React and ASP.NET Core. I am passionate about continuous learning and embracing new challenges, and am keen to secure an opportunity where I can leverage my background in software development to bring value to the company while continuing to grow as a developer

SKILLS

Tools and Languages	• Python, Flask, C#, ASP.NET Core, Typescript, React, Vue, Material UI, SQL, Git, Github & Github Actions, REST APIs, Linux, GCP, Docker, Kubernetes, UiPath, ReFrameWork, LaTeX
Additional Tools	• Selenium, BootStrap, Tensorflow, Pandas, Jupyter Notebooks, Scikit-Learn
Quantitative Research	• Mathematical optimization, Mathematical Modeling, Matlab
Communication	• English and Italian - fluent, French - intermediate

TECHNICAL EXPERIENCE

Full Stack Developer <i>Rotamaster</i>	May 2025 — Present <i>Leeds</i>
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- Developed a healthcare workforce scheduling platform used by NHS Trusts, GP Practices, PCNs, and care providers.
- Designed and developed secure, compliant RESTful APIs using ASP.NET Core with MySQL.
- Implemented complex rota and scheduling logic with a focus on compliance, audit readiness, and safety.
- Developed responsive web frontends using Vue.js.
- Built cross-platform mobile applications using React Native.
- Wrote and maintained unit tests:
 - Frontend testing using Vitest
 - Backend testing using Moq
- Used Git and github for version control, including feature branching and code reviews.
- Worked within an Agile Scrum environment using Jira, participating in daily stand-ups, three-week sprints, sprint reviews, and retrospectives.
- Collaborated with cross-functional teams to deliver reliable, secure features for healthcare organisations.

Full Stack Developer <i>Liberty Global</i>	May 2024 — May 2025 <i>Bradford</i>
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- Developed an internal React App using ASP.NET Core, PostgreSQL and BigQuery for Accounts Receivable, reducing payment reconciliation time by 70%.
- Built Docker containers for seamless GCP Cloud Run deployment and consistent environments.
- Worked in collaborative Agile environment, using Git version control and Jira to track implementation of new features to ensure an excellent user experience and performance.

RPA Developer <i>Liberty Global The Software Institute & Liberty Global</i>	Sept 2022 — April 2024 <i>Bradford</i>
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- Developed a unified Power Apps application streamlining office administrative processes by unifying multiple portals into one, reducing time spent on routine tasks by 25%.
- 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, while gaining hands-on experience with Kubernetes by assisting a DevOps engineer.
- Participated in a GCP bootcamp, gaining expertise in cloud tools, machine learning model training, and cloud functions.

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Beatrice Federici

Full Stack Developer/ Software Engineer

Portfolio: [Beatrix-droid.github.io](https://github.com/Beatrix-droid)
🐙 Beatrix-droid
🌐 Beatrice Federici

Freelance Developer: Web Trivia App Development

LOKAL

Sept 2023 — Oct 2023
remote

- 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.

Masters in Mathematical Sciences

University of York

September 2019 — June 2020
York

- 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—2016