Ryan, Paul McKenna

Date of birth: 08/12/1994 | **Nationality:** Irish, British | **Gender:** Male |

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Address: 23 Ribble Drive, YO104ED, York, United Kingdom (Home)

WORK EXPERIENCE

11/05/2018 – 15/04/2021 Manchester, United Kingdom
SOFTWARE ENGINEER ELIXIR SOFTWARE

- Worked through the full lifecycle of multiple projects, from concept design, through development, to testing and release for ITRAX (Productivity system for chemists).
- Integrating graphical libraries for computational chemistry into the management software, giving scientists the power to interactively develop and document the process of drug discovery – using the well known python library CHEMDRAW.
- Created easy to understand, clean, reusable code for future use, developed according to design patterns and refactored as necessary.
- Working with big data, requiring data cleansing, augmentation, visualization and analysis. Integration of Machine learning models for business insights.
- Perform tasks such as Principal Component Analysis, Dimensionality Reduction, Normalization, feature extraction, de-noise, de-noising, sampling on customer data to inform future business and development goals.

Address Glasshouse, Alderley Park, Congleton Road Nether Alderley, Macclesfield, SK10 4ZE, Manchester, United Kingdom

17/02/2022 – 09/05/2023 Bristol, United Kingdom
EMBEDDED SYSTEMS SOFTWARE DEVELOPER MBDA

- Embedded development in C & C++ on Linux.
- Working with various micro controllers and communication protocols such as CAN, UART, I2C and SPI. Knowledge of DC motors and other components.
- Leveraging electrical engineering knowledge, schematic & PCB design.
- Experience working on unmanned or robotic systems.
- Control systems, control theory, robotics for machine learning

Address 3 Golf Course Ln, Bristol , BS34 7QS, Bristol, United Kingdom

25/04/2021 – 10/02/2022 Barcelona, Spain
SOFTWARE DEVELOPER MCKENNA TECHNOLOGIES

- Operating as an independent Developer focused on Computer Vision and Machine learning. Using libraries such as OpenCV, Pytorch, Numpy, Pandas.
- Working on Linux systems in Python and C++. Working with SQL databases. Performing statistical analysis to fine tune model results.
- Provided expert hands-on technical advice, guidance, and consultancy to B2B clients, aligning relevant, viable technological solutions to ever-changing business needs

EDUCATION AND TRAINING

10/09/2016 – 30/06/2019 Sheffield, United Kingdom
BACHELOR'S OF ENGINEERING Sheffield Hallam University

Address Howard St, Sheffield City Centre, Sheffield , S1 1WB, Sheffield, United Kingdom │

Website https://www.shu.ac.uk/

12/09/2019 – 26/06/2022 Chester, United Kingdom
MASTER OF SCIENCE University of Chester

Website https://www.chester.ac.uk/

10/10/2023 – CURRENT York, United Kingdom
DOCTOR OF PHILOSOPHY University of York

Address Heslington, York, YO10 5DD, York, United Kingdom │ **Website** https://www.york.ac.uk/

LANGUAGE SKILLS

Mother tongue(s): **ENGLISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
SPANISH	B1	B1	A2	A2	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

C++ │ CUDA │ Numpy │ Matplotlib │ PyTorch │ Python │ OpenCV │ MATLAB │ Algorithms & Data-structures │ Micro-controllers │ Jupyter Notebook │ STM32 │ sympy │ Linux │ AWS │ GCP │ Pandas │ scipy │ ROS │ Isaac-gym │ Git │ Deep Learning │ Machine Learning │ Scikit-Learn │ Artificial Intelligence │ SQL │ Data Science │ Seaborn │ Keras │ Computer Vision │ Data Analysis │ Test-Driven-development │ software metrics │ UML-diagramming │ ER-diagramming