Enrico **Zammit Lonardelli**

A Truly Full-Stack Engineer

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Professional Summary

- I am a physics graduate with a strong DevOps mindset interested in full-stack software development
- Hard working spirit and eagerness to learn shown by the 10+ hackathons I have attended across 5 countries

Skills

Technical
5+ years experience: Git, Python, C++, Node.js, React.js, Linux OS
2 years experience: Java, PHP, Amazon Web Services, Docker
1 year experience: Kubernetes, Tensorflow & Keras, Jenkins, Google Cloud

Languages
Native: Maltese, Italian, English
Proficient: French
Beginner: Russian

Relevant Experience

Global Technology Graduate Scheme

HSBC Bank pl, London, UK — Sept. 20- Current

- Part of the Payments & Global Liquidity Cash Management - systems which process 1 Trillion $ a day
- Worked on the total cost ownership project to use data analysis techniques to save 1.3M$ in infrastructure costs. Also worked on automating numerous manual processes and remove toil, particularly, around production monitoring.
- Involved in other opportunities such as Teach Python Bootcamp, HerHack, Moving on Up Newham, I Am Remarkable
- Technologies used: Jenkins, xMatters, Docker, Kubernetes, Control-M, Git, Ansible, Python, Google Cloud

Superhero Science Competition

Pro-bono in collaboration with NGO Euromedia Forum, Malta — Sep. 18- Current

- Single-handedly designed and maintain a serverless API with Node.js on AWS services with a self-scalable frontend website running on React.js. Developed using CI/CD pipelines with Docker and Cloudformation.
- Technologies used: Serverless, Gitlab, AWS Lambda, API Gateway, CloudFormation, React.js, Material UI, DynamoDB, AWS IAM, AWS Cognito, Netlify. Available at superheroscience.info.

Intern Developer

Novacoast, Manchester, UK — Jan. 20 - Sept. 20

- Worked on the front-end in React.js and Material UI, the Go backend and the worker in Python3.
- Since the company is based mostly in the US, I improved my team working skills and flexibility. Drastically elevated my abilities towards developing production-ready, stable packages which are also security focused first.
- Technologies used: GitLab Enterprise, React.js, Material UI, Go, Python3, Docker, Jest, Enzyme

Education

MPhys Physics with Theoretical Physics (Hons.)

The University of Manchester, UK — Sept. 16 - Jun 20

- Final total grade: Upper Second Class (Mphys final year project 78%)
- My final year project was using deep learning techniques to create fast simulations alternative to Monte Carlo techniques. Produced very promising results and ended up presenting to numerous scientific groups. Github repository
- Technologies used: Python3, Docker, Singularity, GANs, Tensorflow, Keras

Other Notable Experience

Dark Matter Research Intern

Rutherford Appleton Laboratory, Harwell, UK — Jul. 19 - Aug. 19

- Supervised by Dr.Pawel Majewski, I carried out data analysis on noisy simulation data
- Produced an all-round simulator for a detector specifically aimed at detecting the Migdal effect, a cutting-edge technique for dark matter detection
- As a personal extension I generated a machine learning model to classify signal images with 83% accuracy
- Technologies used: Git, Python, C++ , Fortran, Keras ML, Degrad, Magboltz, SRIM, Geant4

iGaming Frontend Developer

Raketech, Malta — Jun. 18 - Sept. 18

- Maintained 4 high revenue VIP websites and coordinated with a team of SEO managers and content writers
- Gained experience in working with Agile methodologies and a deadline-driven environment
- Achieved a complete face lift of a particular high revenue website during my short stay
- Technologies used: Git, PHP, Wordpress, Docker, Jira, Bitbucket, Confluence

Research Intern

University of Malta, Malta — Jun. 17 - Sept. 17

- Supervised by Dr.Pierre-Sandre Farrugia, I modelled auxetic materials using ANSYS 13.0 to study the design of different materials, particularly starting from a shape and modelling it so as for it to become auxetic in nature.
- Gained invaluable experience in research procedures, 3D modelling, auxetics and outside-the-box thinking.
- Published in a peer-reviewed journal as coauthor and most recently received an award by Wiley publishers for being one of the most read papers in 2018-2019.

Technical Service Representative

Hornet Services, University of Manchester, UK — Sept. 16 - Jun. 17

- Responsible for technical assistance with any network IT related issues around university campuses
- Gained experience in IT technical services, teamwork skills and customer relations

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