

# Enrico Zammit Lonardelli

Theoretical Physicist and Software Developer

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## Professional Summary

- I am a physics student in my final year looking for an entry level cybersecurity or junior software engineer position
- Hard working spirit and eagerness to learn shown by the 10+ hackathons I have attended across 5 countries
- I am available to start working from July 2020 onwards and very willing to relocate worldwide

## Technical Skills

**Expert:** Python, C++, REST APIs, Git

**Intermediate:** Javascript, Java, PHP, Amazon AWS, Linux, React.js, XAMPP

**Learning:** Docker, Regex, Keras ML, Go

## Certifications

Currently studying on Cybrary.it for CompTIA Network+ certification with exam planned for December, 2019

## Notable Projects

### Superhero Science Competition

Private repository

Sep. 18- Current

- An initiative to design an online superhero themed science competition for children and students ranging from 9 to 14 years old.
- Designed and actively maintain a serverless stack with self-scalable client service and a production ready API both tied through CI/CD pipelines
- Technologies used: Git, AWS Lambda, API Gateway, Cloudfront, React.js, Bootstrap, DynamoDB, IAM, Cognito, Netlify, Seed

## Relevant 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
- 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

Raketechnology, 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 facelift of a particular high revenue website during my short stay
- Technologies used: Git, PHP, Wordpress, Docker, Jira, Bitbucket, Confluence

## 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

## Education

### MPhys Physics with Theoretical Physics (Hons.)

The University of Manchester, UK

Sept. 16 - Jun 20

Predicted final grade: Upper Second Class

## Notable Hackathons and CTF events

### First Place

Quickfire Esports Hackathon in Malta

Apr.19

- Created an online social platform for organisers of esports events
- Features included a ticketing system, notifications, moderator view and advertisements all into a web app
- Technologies used: Git, PHP, Bootstrap, Heroku, REST APIs

[Github repository](#)

### Third Place

Palo Alto Networks CTF in Manchester, UK

Apr.19

- Solved different challenges varying from digital forensics to web penetration, cryptography and binary exploitation
- I learnt a whole lot of new techniques from my very skilled team mates
- Technologies used: Kali Linux, Burpsuite, Steganographic Tools, Python

### First Place : Best in Show

Covhack in Coventry, UK

Mar.19

- Created a chrome extension and RESTful API to be able to visit recipe websites, add food automatically to a cart and then through an app directly select the cheapest store to buy it from
- Technologies used: Git, PHP, Python, Javascript, Creating Chrome Extensions, REST API, Heroku

[Github repository](#)

### Best Transportation Hack

HackCity with Firstco in London, UK

Mar.18

- Created a webapp taking a departure and destination station in the London Underground and creating a spotify playlist with songs like the names of the stations along the trip and with duration of playlist like the journey
- Technologies used: Git, Python, REST APIs, Nexmo Phone API, Flask Server, Digital Ocean Droplet

[Github repository](#)

## Languages

**Native:** Maltese, Italian, English **Proficient:** French

September 6, 2019