

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 Security+ 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 : Amag Group Challenge

HackZurich in Zurich, CH

Sept. 19

- Created a mobile app which used history about parking garages around Zurich to train a machine learning model. A user could then put in a place and a time and it would suggest the best garage to park due to predicted free spaces.
- Technologies used: Git, React.js Native, Javascript, Python, Keras, CatBoost, REST API, TomTomAPI

[Gitlab repository](#)

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

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

October 3, 2019