Enrico Zammit Lonardelli

Production Engineer

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Professional Summary

- Ambitious and hard-working production engineer with a strong focus on observability and SRE methodologies. I'm a technologist at heart and a physicist by nature which means I love solving problem irrespective of the tech stack.

Current Role

Production Engineer

Marshall Wace, New York City, US   Nov. 21- Current

- Maintain live service monitoring over our whole tech estate together with providing live trade support should anything go wrong from front to back office
- Manage the help desk which might vary from a desktop issue, to a trading issue, a sql query optimization or data analysis
- Together with infrastructure SREs, introduce monitoring and tracing best practices across all teams and applications through the use of metrics, logs and traces to create an observable stack
- Technologies used: Docker, Openshift, Transact-SQL, SQL Server, Prometheus, Grafana, Domain Administration, FIX, React, Airwatch, VMware, Airflow, Windows & Linux Support, Python, Powershell

Relevant Experience

Global Technology Graduate Scheme

HSBC Bank pl, London, UK   Sept. 20- Nov.21

- At first shadowed DBAs learning topics from DB recovery and backups to debugging real, production issues
- Worked on the total cost ownership project (team of 4) to use data analysis techniques to save 1.3M$ in infrastructure costs. Also worked on automating the DR recovery procedures from a long document to jenkins pipelines.
- 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.

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

Updated on *September 24, 2023*