

Pier Paolo Ippolito

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EDUCATION

- **University of Southampton** Southampton, UK
MSc Artificial Intelligence Sept 2019 – Sept 2020
- **University of Southampton** Southampton, UK
BEng (HONS) Electronic Engineering; First Class Honours Degree. Sept 2016 – June 2019
 - **Dissertation - Alleviate children's health issues through games and Machine Learning:** Developed a suite of games designed to help children's affected by disabilities. These games are synchronised with a wireless EEG wearable device used to register the children brain activities. Analysing the brainwaves data, using Machine Learning, has then been possible to correctly classify with 96.9% accuracy if a child is affected or not by autism.
 - **D4 Design Exercise:** Designed a connected device for the Internet of Things and Smart Homes (Smart Lamp).

RELEVANT EXPERIENCE

- **Fidessa** Woking, UK
Summer-Intern, Service Delivery Developer Jul 2019 - Sept 2019
 - **Financial Services:** Fidessa is a financial services company with offices all around the world. Every year \$26 trillion worth of transactions flows across Fidessa global network.
 - **Web Development:** As part of my experience, I improved the Fidessa online tools framework working in the Financial Derivatives Automation Team. This role involved working on the client-side using HTML/CSS/ Javascript, and on the server-side using SQL.
- **Documation Software Ltd** Southampton, UK
Spring-Intern, Software Developer April 2019 - April 2019
 - **Robotics Process Automation (RPA):** I designed and implemented two programs using UiPath to automate supplier's registration and creation of invoices into financial systems (Sage 50).
 - **Execution Speed Up:** The two programs I developed are currently used by Documation and its customers. Their application has been proved to speed up these processes up to three times.
- **University of Southampton** Southampton, UK
ECS Research Intern June 2018 - Sept 2018
 - **Next-gen Micro-LED displays:** Designed and tested (using Python) the chip and board layout for a monolithic quantum dot-enhanced microdisplay demonstrator device.
 - **Global Impact:** This project was carried out in collaboration with a University in Hong-Kong to research how to improve the efficiency of next generation Micro-LED displays.

SKILLS

- **Programming Languages:** Python/R/SQL/MATLAB/C/C++/UiPath/HTML/CSS/Java-script.
- **Frameworks:** TensorFlow/Keras/PyTorch/Apache Spark/BigQuery/PySyft/Plotly/Dash/RAPIDS.
- **Writing/Presentation Software's:** LaTeX/Microsoft Office/Markdown/Prezi.

ACTIVITIES

- **Events:** Facebook Analytic Academy 2018, J.P. Morgan: Introduction to Big Data Analytic using Spark and Python 2018 (Spark data-set challenge winner), Microsoft: Deep Learning Data Analysis in Azure Workshop.
- **Hackathons:** Facebook London Hack 2019: First Challenge Winner, Hack The South 2019: Best Hardware Prize Winner.
- **Societies:** I am a committee member and founder of the University of Southampton Artificial Intelligence Society (USAIS). I regularly prepare and present society workshops.
- **Medium Blogger:** I am currently a writer for publications such as [Towards Data Science](#) and [freeCodeCamp](#), where I frequently publish articles about Artificial Intelligence and Software Development (more than 20000 views per month). Additionally, I also have my own [personal blog](#) and [personal website](#) where I share my programming projects.
- **Kaggle Contributor:** I regularly take part in [Kaggle](#) Competitions and contribute to open source Kernel analysis.
- **Awards:** At completion of my Undergraduate Dissertation, I received an award for "Outstanding Computer Science Project". Additionally, in my first year of studies at the University of Southampton, I have been awarded a scholarship for exceeding the top entry criteria.