Pier Paolo Ippolito

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Education

- **University of Southampton** — Southampton, UK
  MSc Artificial Intelligence; On course for a First Class Honours Degree. — *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.
  - **Smart Device Project**: 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.
- **Soft Skills**: Team Building/Project Lifecycle Management (SCRUM)/Fluent in English and Italian.
- **Writing/Presentation Software's**: LaTeX/Microsoft Office/Markdown/Prezi/Camtasia.

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 of the University of Southampton Artificial Intelligence Society (Advanced Workshop Officer) and a Microsoft Student Partner.
- **Technical Writer**: I am currently a writer and editor on Medium for Towards Data Science, 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.