


LANCELOT BLANCHARD

Third year Student in MEng Computing
Imperial College London

CONTACT

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EDUCATION

2018 2022	MEng Computing, Imperial College London <ul style="list-style-type: none">• First Class Honours in Years 1 and 2.• Dean's List in Year 2.• Awarded by the 2018 Entrance Scholarship for best application.
2015 2018	French Scientific Baccalauréat with International Option (OIB) <ul style="list-style-type: none">• Highest Honours (average 18.69/20).• Highest mark in Computing, Mathematics, Natural Sciences, Philosophy and Science Group Project.
2006 2018	Classical Piano and Music Theory, Conservatory of Rennes <ul style="list-style-type: none">• Grade 8 Equivalent with Advanced Harmony• Honours.

WORK EXPERIENCE & PROJECTS

Visual Flow-based Neural Network Builder - IVANN (Third Year Group Project) <ul style="list-style-type: none">• Develop an Open Source Webapp which provides a Graphical Interface to generate Neural Networks coded in Python.• Improve knowledge of AI and ML Python Libraries such as PyTorch, Scikit-Learn and Tensorflow as well as Full Stack skills.	<i>Oct 2020 - Present</i>
Software Engineer Intern - Privitar <ul style="list-style-type: none">• Worked as part of the API Team in order to implement complete APIs for both internal and external use cases.• Worked with Java, Spring, and Hibernate for MySQL, PostgreSQL and Oracle databases. Also used Data tools such as Apache Hadoop, Apache Hive, Apache NiFi and Apache Kafka.	<i>Jun 2020 - Sep 2020</i>
DJ Synchronisation Technology - DJStreamr (Second Year Group Project) <ul style="list-style-type: none">• Designed and implemented a brand-new technology to allow the synchronisation and livestreaming of remote DJ gigs.• Practiced Full Stack skills using Typescript, HTML, CSS and Vue.js on the Frontend, and Kotlin and AWS on the Backend.• Gained interest of DJ companies (Native Instruments) and DJ labels (DEFECTED). Ranked 3rd best project overall.	<i>Jun 2020</i>
AI Chess Player (First Year Group Project) <ul style="list-style-type: none">• Developed a C Program that uses OpenCV (Computer Vision) to detect the state of a physical chess board using a phone's camera. The state is then processed by AlphaZero AI over SingularityNET to answer the best next move.• Awarded Most Interesting Extension Prize and ranked 2nd best project overall.	<i>Jun 2019</i>
Analysis of Spotify Algorithmic Playlists (Year 13 Computing Group Project) <ul style="list-style-type: none">• Developed Python algorithms to collect data of tracks featured on different Spotify Algorithmic playlists over time, using the beta Web Service 'SpotOnTrack' as well as the Spotify API.• Analysed the data using R to find correlations between track peak positions, the duration of their stay in the playlist and their keys as well as Spotify's own 'Audio Feature' parameters.• Received highest mark for the project.	<i>Jun 2018</i>
Study on the Influence of Music on the Brain (Year 12 Science Group Project) <ul style="list-style-type: none">• Conducted research in Music, Biology, Neuroscience and Psychology.• Developed an open-source web app interactive survey using Javascript and PHP.• Collected and analysed over 1,400 answers to gain an understanding of the effect of music on people's emotions.• Received highest mark for the project.	<i>Sep 2016 - Feb 2017</i>

SKILLS & INTERESTS

 Computing Python, Java, Kotlin, C, C++, Haskell, Git, R, SQL, Vue.js, HTML, CSS, PHP, Javascript, Typescript, Linux, AWS, GCP, Hadoop, Hive, Scikit-Learn, PyTorch, Tensorflow,
 Languages French (Native), English (Fluent), German
 Music Piano, Guitar, Production, Songwriting, Mixing, Sheet Writing, Synth Design
 Sports 10k runner (personal best 45:17)

ADDITIONAL EXPERIENCE

Imperial College Data Science Society <ul style="list-style-type: none">• Active member and Teaching Assistant. Help tutoring several concepts of Data Science, Artificial Intelligence and Machine Learning.	<i>Oct 2019 - Present</i>
ICR Production <i>University Recording Studio & Label</i> <ul style="list-style-type: none">• Manage a fully equipped recording studio and train people to use the equipment with monthly workshops.• Record bands, broadcast live sessions on the University radio and share recorded music online.	<i>Oct 2019 - Present</i>
SENSE <i>Music Group signed with Nettwerk</i> <ul style="list-style-type: none">• Develop business and machine learning strategies leading songs to the Top 10 charts in the Philippines and Top tier Playlists.	<i>Mar 2016 - Present</i>