


# LANCELOT BLANCHARD

Third year Student in MEng Computing  
Imperial College London

## CONTACT

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## EDUCATION

2018  
2022 | **MEng Computing, Imperial College London**  
• 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)**  
• 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**  
• Grade 8 Equivalent with Advanced Harmony.  
• Honours.

## WORK EXPERIENCE & PROJECTS

**Visual Flow-based Neural Network Builder - IVANN (Third Year Group Project)** Oct 2020 - Present  
• 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.

**Software Engineer Intern - Privitar** Jun 2020 - Sep 2020  
• 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.

**DJ Synchronisation Technology - DJStreamr (Second Year Group Project)** Jun 2020  
• 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.


**AI Chess Player (First Year Group Project)** Jun 2019  
• 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.

**Analysis of Spotify Algorithmic Playlists (Year 13 Computing Group Project)** Jun 2018  
• 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.


**Study on the Influence of Music on the Brain (Year 12 Science Group Project)** Sep 2016 - Feb 2017  
• 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.

## 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** Oct 2019 - Present  
• Active member and Teaching Assistant. Help tutoring several concepts of Data Science, Artificial Intelligence and Machine Learning.

**ICR Production** Oct 2019 - Present  
*University Recording Studio & Label*  
• 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.

**SENSE** Mar 2016 - Present  
*Music Group signed with Nettwerk*  
• Develop business and machine learning strategies leading songs to the Top 10 charts in the Philippines and Top tier Playlists.