


# LANCELOT BLANCHARD

Third year Student in MEng Computing  
Imperial College London

## CONTACT

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## EDUCATION

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

## 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 Graphic 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.