# Benjamin Lellouch

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## EDUCATION

### UNIVERSITY OF SOUTHAMPTON
MEng Computer Science with A.I
2018-2022 | Southampton, U.K.
Grade: First Class
Average Mark: 79%
Highest Marks:
- Computer Vision - 90%
- Advanced Databases - 87%
- Data Management - 85%
- Intelligent Systems - 83%
- Natural Language Processing - 83%
- Theory of Computing - 80%

### AIX-MARSEILLE UNIVERSITY
Medecine
2017-2018 | Marseille, France

### LYCEE DE PROVENCE
Scientific Baccalaureate with Specialisation in Computer Science
Graduated in July 2017 | Marseille, France
Grade: High Honours

## COURSEWORK

### THIRD YEAR
Foundations of Machine Learning
Computer Vision (Scene Classification)
Database Query Optimiser
Natural Language Processing

### SECOND YEAR
Functional Programming
Language Interpreter
Software Engineering Group Project
Distributed Voting Algorithm
Operating Systems

## SKILLS

### TECHNICAL SKILLS
Proficient with:
Java • Python • Git
LaTeX• Linux
Familiar with :
C • C++ • Qt/QML
Rust • Tensorflow • NumPy

### SOFT SKILLS
Strong:
Bilingual Communication (*English and French*)
Initiative • Leadership

## EXPERIENCE

### J.P. MORGAN | Software Engineer Intern
Jun 2021 - Aug 2021 | Bournemouth, U.K.
- Developed a framework which enables the creation and testing of natural language rules for the grading of firm-wide controlled vocabulary definitions.
- Analysed vocabulary definitions to design rules which detect undesirable patterns (Regex, POS Tagging, Dependency parsing, and word embeddings).

### J.P. MORGAN | Software Engineer Intern
Jun 2020 - Aug 2020 | Bournemouth, U.K.
- Led a team of interns to develop an online learning solution for the charity RE:ACT UK.
- Designed REST APIs for Economic Sanction Screening and Fraudulent Transaction Detection as part of InsideSherpa modules.

### RAYMARINE | Software Engineer Intern
Jun 2019 - Aug 2019 | Fareham, U.K.
- Overhauled systems diagnostics by making it more readable and more functional.
- Designed and implemented a common back-end for the naming of multifunction displays and different types of sensors.

## TECHNICAL PROJECTS

### VISION, LEARNING AND CONTROL GROUP | Dissertation
Sep 2020 - May 2021 | Southampton, U.K.
- Worked with **Dr Kate Farrahi** to develop a model which predicts physical human interaction with the objective of improving epidemic modelling.
- Analyzed Bluetooth contact networks to identify potential seasonalities in the way humans interact.
- This model, a Recurrent Neural Network, was able to reduce the number of mispredicted interactions by 61% compared to our baseline.

### COMPUTER VISION | Coursework
Sep 2020 - Dec 2020 | Southampton, U.K.
- Implemented a scene classification model through the use of transfer learning. This model achieved a classification accuracy of 92.4% which was the top performing model in our year.

## EXTRACURRICULAR

### ELECTRONICS AND COMPUTER SCIENCE SOCIETY
Treasurer
Mar 2019 - Mar 2021
- Automated expense tracking and invoice creation through the use of Wave Financial software.