

# LORENZO BERNASCONI

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Imperial College London - Electronics and Computer Science - 3<sup>rd</sup> Year

## EDUCATION

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### Imperial College London

3<sup>rd</sup> Year Undergraduate Student

Information Systems Engineering MEng (Electronics and Computer Science)

Current Attainment: First Class Honours

*September 2018 - Present*

*Expected Graduation 2022*

### International Baccalaureate - International School of Milan

Overall Score: 40 (Top 2% Worldwide)

*September 2016 - May 2018*

## EXPERIENCE

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### StatCollect - Big Data for Small Business

*Founder, CEO*

April 2019 - April 2020

*Milan, Italy*

- Founded **StatCollect**, a startup providing affordable **Data Science** and **AI** solutions to small businesses.
- **Managed** a team of 4 engineers, coordinating their varied expertise to perform efficient and high-quality work.
- Led the implementation of our **automated data analysis/collection systems**, teaching me to use technologies I am not familiar with on the spot and adapt to unexpected situations quickly and professionally.

### SnapSense AI - Empowering healthcare workers with modern AI.

*Founder, CTO*

September 2020 - Ongoing

*London, United Kingdom*

- **SnapSense AI** provides an AI-enhanced telemedicine platform for diabetic patients to contact clinicians.
- Was approached by multiple investors and venture capitalists interested in investing total of over **£100.000**.
- Developed **management skills** by leading a team of 12 student interns in developing our web platform.
- **Negotiated** to pilot our platform at 2 major London hospitals (St. Thomas and Chelsea and Westminster).

### Imperial College Adaptive and Intelligent Robotics Lab

*Undergraduate Researcher*

January 2020 - Ongoing

*Imperial College London*

- Currently researching machine learning techniques applied to transferable tool use in robots in the **Imperial College Adaptive and Intelligent Robotics Lab**, refining my data analysis and research skills.
- Received a bursary for my research and am currently working towards a publication. Developed a subtask optimization algorithm using the **MAP-Elites evolutionary algorithm** combined with **sub-task optimization** in **C++**, which was run on a HPC cloud using **Singularity** (similar to Docker).

### Digital Insight - Automated research

*Junior Data Analyst*

March 2021 - Ongoing

*London, United Kingdom*

- Worked in the **Natural Language Processing** department; **performing research** in machine learning on knowledge graphs and implementing state of the art algorithms for **production environments**.
- Refined my **collaboration skills** by working in a small team of researchers and engineers.

## TECHNICAL SKILLS

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### Machine Learning

PyTorch, Tensorflow, Numpy and Pandas

### Hardware Interface

Verilog and Quartus-Prime

### Visual Design

Adobe Photoshop

### Web Development

HTML, Javascript

### Data Visualisation

Python (Matplotlib and Seaborn), Excel

### Language Processing

Bison, LEX and YACC

### Scripting

Python, Javascript and BASH

### Other Languages

C, C++, Java, Solidity, SQL and Matlab

### Physics Engines

Box2D