

# Cyprien Roche

**Computer Science** undergraduate student at **Imperial College London**

I am curious and eager to shape the future of technology and understand its impact on our society to enable people to connect and collaborate. I look forward to discovering unique approaches to problem solving and share my analytical skills with others.

## EDUCATION

<b>2018 – 2022</b>	<b>Imperial College</b>	<b>London, UK</b>
MEng Computing Overall – 71.8%		Hardware – 77.5%
Favorite class:	Graphs and Algorithms – 75%	Programming – 75%
Activities	Imperial Dance Club, Salsa and Bachata	
Societies	Active member of the Department of Computing Society	
<b>2013 – 2018</b>	<b>Charterhouse School</b>	<b>Godalming, UK</b>
Pre-U	Math (D1), Further Math (D2), Physics (D2) & Economics (D2) (equivalent to <b>A*A*A*A*</b> )	
Activities	1 <sup>st</sup> trumpet in the Symphonic Orchestra	
Societies	<b>Head of Perception Society</b> organizing weekly speeches by leading specialists with focus on neurosciences	

## PROJECTS

<b>December 2018</b>	<b>Pintos Operating System</b>	<b>Imperial College, UK</b>
<i>Extended a basic operating system, implementing scheduling algorithms, support for user system calls and virtual memory management in a group of 4. <b>C</b></i>		
<b>October 2019 – Present</b>		<b>Imperial College, UK</b>
<i>Worked as an Undergraduate Teaching Assistant with the Department of Computing.</i>		
<b>June 2019</b>	<b>ARM11 project</b>	<b>Imperial College, UK</b>
<i>Implemented an assembler and emulator for a subset of the ARM architecture in a group of 4. As an extension, developed a debugger for the emulator. <b>C</b></i>		
<b>February 2019</b>	<b>Turtle Interpreter</b>	<b>Imperial College, UK</b>
<i>Designed a program that allows a user to draw pictures using a Turtle Graphics Language. Also included a command interpreter that reads and executes input. <b>Java</b></i>		

## WORK EXPERIENCE

<b>June 2017</b>	<b>Trainee at ABB Robotics</b>	<b>Milton Keynes, UK</b>
Teamwork with experienced technicians from the <b>automotive industry</b> . Applied my programming skills to operate production line robots.		
<b>June 2016</b>	<b>Intern at ABB Oil &amp; Gas</b>	<b>St Neots, UK</b>
In the workshop department, assembled hardware in electrical cabinets for <b>automation systems</b> of offshore oil and gas rigs.		

## VOLUNTEER EXPERIENCE

<b>July 2017</b>	<b>Worker for Union “REMPART”</b>	<b>Collioure, France</b>
Took part in a demanding program to restore the Napoleonic Dugommier strong under the direction of an architect. Developed my hands-on skills, such as masonry, and learned to collaborate with an international team of all-age volunteers from diverse backgrounds.		



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## SKILLS

Java, Kotlin, C, Haskell  
Python, JavaScript  
Git, CI/CD, TDD  
Agile Software Development  
Creativity, Resilience  
Team coordination

## HONORS-AWARDS

Senior Scholarship  
Additional Scholarship  
Music Scholarship

## LANGUAGES

French (Native)  
English (Bilingual)  
Spanish (Basic)

## CERTIFICATIONS

IRC5 programming & operation  
Trumpet Grade 8  
Karate Black Belt

## RESEARCH PROJECT

Extended essay about how artificial neurons and Deep Learning work and what changes they could induce in human nature.

## INTERESTS

Running, cross-country skiing  
Travelling, philosophy  
Piano, music composition  
Hackathons