

Cyprien Roche

Penultimate Year Computing Student

Imperial College London

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I seek to shape the future of technology and understand its impact on our society to enable people to connect and collaborate. I intend to explore innovative approaches to problem solving and share my analytical skills with others.

EDUCATION

IMPERIAL COLLEGE LONDON MENG COMPUTING *September 2018 - June 2022 (expected)*

- Achieved first class honour in both years of study . Overall, 72% in first year and 81% in second year
- Ranked second out of fifty teams when presenting project Dora to designers from the Royal College of Art
- Worked as an Undergraduate Teaching Assistant with the Department of Computing

CHARTERHOUSE SCHOOL PRE-U *September 2013 - June 2018*

- Achieved D1 in Mathematics and D2 in Further Mathematics, Physics and Economics . Equivalent to A* A* A* A*
- First trumpet in the symphonic orchestra and the brass ensemble
- Head of the Perception Society organising weekly speeches by lead researchers with focus on neurosciences

EXPERIENCE

R3 SOLUTIONS ENGINEERING INTERN *June 2020 - September 2020*

- Designed a blockchain application to enable R3 to initiate a conversation with businesses in the energy sector
- Pitched a PoC to the head of the Industrial Business Unit and the head of the Trade and Supply Chain vertical
- Connected with the Government and Relations team to scope regulatory compliancy in the ecosystem
- Created a range of technical specification documents and designed a prototype solution as a MVP

ABB ROBOTICS TRAINEE *June 2018*

- Worked with experienced technicians from the automotive industry
- Applied programming skills to operate production line robots
- Trained using an IRB 2400 robot, leading to the obtention of an Industrial Robot Controller 5 certificate

PROJECT

RECORDA BLOCKCHAIN *July 2020 - Present*

- Identified an opportunity for a blockchain use-case adding value to the renewable energy sector
- Developed a full stack CorDapp meeting the requirements outlined to tokenise Renewable Energy Certificates (RECs)
- Demonstrated near-real-time RECs settlement, decentralised issuance and trace back to the provenance of RECs

DORA WEB ENGINEERING *April 2020 - Present*

- Developed a web application for a charity operating in Sub-Saharan Africa, called **Change 1's Life**
- Exploited Human Centred Design techniques to develop a product that engages and meets the needs of the charity
- Connected with a range of charity members and potential donors on a weekly basis following agile principles

WACC COMPILER *January 2020 - March 2020*

- Built a compiler from scratch for the WACC language, a simple variant on the While family of languages
- Extended the language to support function overloading and variable type inference
- Achieved an overall grade of 94% for design, code quality and functional correctness

LANGUAGES *Native:* French *Fluent:* English *Intermediate:* Spanish

CERTIFICATIONS Corda Certified Developer | IRC5 Programming & Operation | Karate Black Belt | ABRSM Trumpet Grade 8 | Coursera - Creative Thinking

HONOURS AND AWARDS Senior Scholarship | Additional Scholarship | Music Scholarship

SOFT SKILLS Agile | BDD | Communication | Public Speaking | User-Centred Design | Creativity

HARD SKILLS Kotlin | Java | Haskell | C | Python | React | Git | JUnit | Linux

INTERESTS Running | Salsa | Skiing | Hiking | Piano | Music Composition | Hackathons