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   *Sept. 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   *Sept. 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 - Sept. 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

MULTI-PAXOS   DISTRIBUTED SYSTEM   *Jan. 2021 - Mar. 2021*

- Built a simple **replicated banking service** solving the consensus problem in a network of unreliable processes
- Supported server and network failures making the system fault-tolerant and prevented livelock scenarios
- Achieved an overall grade of **95%** for design, code quality and functional correctness

RECORDA   BLOCKCHAIN   *July 2020 - Sept. 2020*

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

DORA   WEB ENGINEERING   *Apr. 2020 - July 2020*

- 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**

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	TDD	Critical Thinking	Public Speaking	User-Centred Design	Creativity
HARD SKILLS	Kotlin	Java	Elixir	Haskell	C	Python	React	Git	JUnit	Linux
INTERESTS	Running	Salsa	Skiing	Hiking	Piano	Music Composition	Hackathons