

# Derek Sorensen

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## OBJECTIVE

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Accelerate the revolution of the global financial system with blockchain and distributed ledger technologies.

## EDUCATION

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<b>University of Cambridge</b> <i>PhD in Computer Science</i>	Cambridge, UK <i>Oct 2019 – Sep 2022</i>
<b>University of Oxford</b> <i>MSc in Mathematics and Foundations of Computer Science</i>	Oxford, UK <i>Oct 2016 – Sep 2017</i>
<b>Brigham Young University</b> <i>BSc in Mathematics</i>	Provo, Utah, USA <i>Jan 2011 – Aug 2016</i>

## EXPERIENCE

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<b>Senior Software Engineer</b> <i>Clearmatics</i>	Oct 2019 – Present <i>London, UK</i>
<ul style="list-style-type: none"><li>• Direct the company's aggressive formal verification agenda.</li><li>• Establish collaborative links with other companies, vetting vendors by checking their highly technical, specialist claims on their products.</li><li>• Examine and approve highly technical, algorithmic work done by the engineering team.</li></ul>	
<b>Consultant</b> <i>Digital Asset</i>	Jul 2019 – Sep 2019 <i>New York, New York</i>
<ul style="list-style-type: none"><li>• Designed, in both technical and business terms, a cryptocurrency with business-friendly privacy features.</li><li>• Built a proof of concept, illustrating legal compliance and privacy.</li><li>• Presented the solution to the company and senior leadership, giving a separate, technical presentation to the research team.</li></ul>	
<b>Research Mathematician</b> <i>Pyroflex Corporation</i>	Mar 2018 – June 2019 <i>Provo, Utah, USA</i>
<ul style="list-style-type: none"><li>• Consulted, building cryptocurrencies optimized for scalability and low transaction latency, while maintaining mathematical integrity.</li><li>• Consulted, building an abstract, mathematical model of their cryptocurrency to guarantee security features.</li><li>• Conducted original research in the fundamental algorithms supporting cryptocurrencies.</li></ul>	

## CONSULTANCY PROJECT HIGHLIGHTS

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<b>Digital Asset</b>	June 2019 – Sep 2019
<ul style="list-style-type: none"><li>• Proved the theoretical and technical feasibility of a GDPR-compliant, auditable cryptocurrency.</li><li>• Resolved criticisms and concerns from the company research team in weekly meetings.</li><li>• Produced a proof of concept and gave a live, company-wide demonstration.</li><li>• Produced a detailed writeup for senior leadership featuring mathematical, economic, and business aspects.</li></ul>	
<b>RChain Coop</b>   <i>Pyroflex Corporation</i>	Mar 2018 – Oct 2018
<ul style="list-style-type: none"><li>• Contracted to build a theoretical model of RChain's blockchain to verify security.</li><li>• Produced detailed theoretical and technical work, alongside a reference manual and user-friendly guide.</li><li>• Gave seminars, talks, and tutorials detailing the technical applications of my work.</li><li>• Collaborated on the blockchain's user manual to attract potential developers.</li></ul>	

## ADDITIONAL SKILLS

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**Languages:** English (native), Spanish (fluent), Russian (intermediate), French (beginner)