

Derek Sorensen

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EDUCATION

University of Cambridge <i>PhD in Theoretical Computer Science</i>	Cambridge, UK 2019 – 2023
University of Oxford <i>MSc in Mathematics and Foundations of Computer Science</i>	Oxford, UK 2016 – 2017
Brigham Young University <i>BSc in Mathematics</i>	Provo, Utah, USA 2011 – 2016
Higher School of Economics <i>Exchange Year, Mathematics</i>	Moscow, Russia 2015 – 2016

EXPERIENCE

Business Development <i>Certora</i>	Jan 2024 – Present <i>Remote (UK)</i>
<ul style="list-style-type: none">Spreading the good news of formally verified smart contracts, managing client relationships, project management, developing products, offering technical expertise to client interactions.	
Software Engineer <i>Protocol Labs</i>	Oct 2022 – Feb 2023 <i>Remote (UK)</i>
<ul style="list-style-type: none">Contributor to Lurk, a Turing complete dialect of LISP for zero-knowledge proofs.Ended engagement early to finish my PhD.	
Business Development (Sustainability and Carbon Offsets) <i>Trilitech</i>	May 2021 – Aug 2022 <i>London, UK</i>
<ul style="list-style-type: none">Lead business development for sustainability on the Tezos blockchain, including tokenized carbon offsets, regenerative finance (ReFi), and sustainability-oriented art marketplaces.Member of the Technical Advisory Committee, the funding body for the Tezos Foundation	
Senior Software Engineer (Formal Verification) <i>Clearmatics</i>	Oct 2019 – Nov 2020 <i>London, UK</i>
<ul style="list-style-type: none">Advised the company's formal verification agenda for Ethereum smart contracts.Wrote seminar series to train a team of ten engineers in mathematics.	
Blockchain Consultant <i>Digital Asset</i>	Jul 2019 – Sep 2019 <i>New York, New York</i>
<ul style="list-style-type: none">Designed and built a functional cryptocurrency in DAML on the Canton Network.Wrote a paper with two teammates outlining the industry-leading privacy features of the novel cryptocurrency.Held regular meetings with company executives and gave a live tutorial of the novel cryptocurrency.	
Research Mathematician <i>Pyroflex Corporation</i>	Mar 2018 – Jun 2019 <i>Provo, Utah, USA</i>
<ul style="list-style-type: none">Created a cryptocurrency that is 7,000 times faster than Bitcoin, and processes 50% more transactions than Visa.Coauthored, presented, and promoted three peer-reviewed, disruptive papers on blockchain scalability.Consulted as chief mathematician on two major industry projects involving cryptocurrency.	

PROGRAMMING LANGUAGES

Coq, OCaml, CameLIGO, Solidity, DAML, K Framework

ADDITIONAL SKILLS

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

Additional Interests: Alpine skiing, existentialist philosophy, backpacking, mountaineering, opera singing