

Derek Sorensen

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EDUCATION

University of Cambridge <i>PhD in Mathematics</i>	Cambridge, UK 2019 – 2022
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

Consultant (Data Analytics) <i>Stealth DeFi Startup</i>	Mar 2021 – May 2021 London, UK
<ul style="list-style-type: none">Built simulation to track 20,000+ transactions and visualize the performance of a DeFi yield optimizer.Isolated and tracked three key network parameters to minimize system fees while maximizing yield.Presented findings in graphs, statistical reports, and images to inform key product design decisions.	
Senior Software Engineer <i>Clearnamics</i>	Oct 2019 – Nov 2020 London, UK
<ul style="list-style-type: none">Developed Ethereum smart contracts (2,000 lines of code) to enforce a specially-designed governance system.Coordinated between three departments, directing the company's aggressive formal verification agenda.Wrote seminar series to train a team of ten engineers in mathematics.	
Consultant (Cryptocurrency) <i>Digital Asset</i>	Jul 2019 – Sep 2019 New York, New York
<ul style="list-style-type: none">Invented and built a functional cryptocurrency in DAML on a team of three individuals.Wrote a paper with two teammates outlining the industry-leading privacy features of the novel cryptocurrency.Held twelve regular meetings with company executives and gave a live tutorial of the novel cryptocurrency.	
Research Mathematician <i>Pyroflex Corporation</i>	Mar 2018 – Jun 2019 Provo, Utah, USA
<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.	

EXTRACURRICULARS

Cambridge iTeams Consulting	Jan 2021 – Mar 2021
<ul style="list-style-type: none">Consulted on a diverse team of six students to bring a blockchain-based IP licensing system to market.Researched, contacted, and interviewed over twenty executives in Telecoms and IoT.Held six regular calls with the inventors and gave two in-depth presentations.	
Oxford Fintech Programme <i>Saïd Business School</i>	Jan 2021 – Mar 2021
<ul style="list-style-type: none">Six-week, intensive course by industry leaders and academics on the latest developments in Fintech.Developed a FinTech business model on a diverse team of seven to address perceived market opportunities.	

PROGRAMMING LANGUAGES

Competent: Python, Solidity, DAML, Agda, TLA+, K Framework
Basic: C++, Haskell

ADDITIONAL SKILLS

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

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