

Derek Sorensen

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EDUCATION

University of Cambridge <i>PhD in Mathematics</i>	Cambridge, UK <i>Oct 2019 – Sep 2022</i>
University of Oxford <i>MSc in Mathematics and Foundations of Computer Science</i>	Oxford, UK <i>Oct 2016 – Sep 2017</i>
Brigham Young University <i>BSc in Mathematics</i>	Provo, Utah, USA <i>Jan 2011 – Aug 2016</i>
Higher School of Economics <i>Exchange Year, Mathematics</i>	Moscow, Russia <i>Sep 2015 - Jun 2016</i>

EXPERIENCE

Senior Software Engineer <i>Clearmatics</i> <ul style="list-style-type: none">Developed Ethereum smart contracts to enforce a new governance system.Directed the company's aggressive formal verification agenda.Designed seminar series of five 3-hour lectures to train a team of 15 engineers in mathematics.	Oct 2019 – Nov 2020 <i>London, UK</i>
Consultant <i>Digital Asset</i> <ul style="list-style-type: none">Designed and built a functional cryptocurrency in DAML on a team of three individuals.Co-wrote a paper outlining the industry-leading privacy features of our cryptocurrency.Held regular meetings with company executives and gave a live tutorial of our cryptocurrency.	Jul 2019 – Sep 2019 <i>New York, New York</i>
Research Mathematician <i>Pyroflex Corporation</i> <ul style="list-style-type: none">Designed a cryptocurrency that is 7,000 times faster than Bitcoin, and processes 50% more transactions than Visa.Co-authored three peer-reviewed, industry-leading papers on blockchain scalability.Consulted as chief mathematician on two major industry projects involving cryptocurrency.	Mar 2018 – June 2019 <i>Provo, Utah, USA</i>

PROGRAMMING LANGUAGES

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

EXTRACURRICULARS

Cambridge Union Committee Member (Public Relations) <ul style="list-style-type: none">Negotiated public relations contracts with 15 Cambridge societies and colleges.	Oct 2019 - Dec 2019
Oxford Latter-day Saint Young Men's Group (President) <ul style="list-style-type: none">Planned and lead Tuesday activities for a group of between 5 and 30 teenagers.Planned and delegated Sunday teaching assignments for a group of 5 young men.Organized and co-ran a week-long summer survival camp for 50+ young men with a team of 10 other adults.	Oct 2016 - Oct 2017
Honors Student Advisory Council (Activities) <ul style="list-style-type: none">Organized and co-ran monthly activities for 100+ honors students, including parties, dinners, and seminars.	Sep 2014 - Sep 2016

AWARDS

- Robert K Thomas Honors Scholarship (2016)
- AMS Math in Moscow Travel Grant (2015)
- Marc Burton Scholarship (2014)

ADDITIONAL SKILLS

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