

Srinath Kailasa

SUMMARY	I'm a Mathematics PhD at UCL, with experience across the technology industry, in R&D, software, and product development.	
EDUCATION	University College London	2018-2023
	<i>PhD Mathematics</i>	2023
	<i>MSc Scientific Computing, Distinction</i>	2020
	Durham University	2013-2017
	<i>MPhys Physics, II:1</i>	2017
TECHNOLOGY	Languages: Python ($\gg 50$ k lines), C++ (< 5 k lines), Matlab (< 5 k lines), JavaScript (< 5 k lines), Go (< 1 k lines), Julia ($\ll 1$ k lines) Haskell ($\ll 1$ k lines), Miranda ($\ll 1$ k lines) Tools: Git/GitHub, L ^A T _E X, Docker Specialist Software TensorFlow, OpenMP, OpenMPI, OpenCL Cloud: Some Exposure to GCP, AWS Databases: PostgreSQL, ElasticSearch, MongoDB Frameworks: Flask, React, React-Native Open Source Contributions: Traits, Envisage, Chaco, Sci-Kit Image, Dask, PyExaFMM	
EXPERIENCE	University College London, London, UK	2020-2023
	My research lies at the interface of numerical mathematics and computer science. Focusing on the problems that arise from discretising physical phenomena, mainly described through partial differential equations, and writing software that takes advantage of the cutting edge in distributed, parallel and heterogenous computing.	
	<i>PhD Student</i>	<i>September 2020 - September 2023</i>
	Faith.online, London, UK	2020
	Faith.online is a streaming and social media platform for organising religious communities over the internet, which was conceived out of a desire to help those in need during the Covid-19 pandemic. I was involved in the very early stages of the company, designing the MVP product specification, hiring out a team, organising fundrasing, and the initial software/product development.	
	<i>Product Manager, Contract</i>	<i>Summer 2020</i>
	Enthought, Cambridge, UK	2019
	Enthought is a global Python software consultancy that develops scientific and analytic computing solutions, famously the home of SciPy. I completed an internship here while working on my Master's degree. I got my first taste of Open Source work on this internship, contributing to widely used scientific Python libraries such as Traits/Envisage/Chaco and other Enthought Open Source initiatives. My internship focused on creating an full-stack image analysis application.	
	<i>Software Engineer, Intern</i>	<i>Summer 2019</i>
	Cytora, London, UK	2017-2019
	Cytora is a leading FinTech startup, using a mixture of proprietary and open datasets to	

make population scale loss-models for the insurance industry. I joined Cytora pre-series A, and worked in a team that evolved from 17 to 80 over my tenure at the company. I gained experience across a number of data science and software engineering projects. My main contribution was the development of a library behind the company's first search service for matching records from disparate sources, at scale.

Software Engineer
Data Analyst

May 2018 - January 2019
September 2017 - May 2018

Cambridge Quantum Computing, Cambridge, UK

2017

CQC builds tools for the commercialisation of quantum technologies, in collaboration with researchers from the University of Cambridge. After my undergraduate degree I interned at CQC researching near-term compilers for emerging quantum computing architectures.

Research Intern

Summer 2017

The Humboldt University of Berlin, Berlin, DE

2016

During my undergraduate degree I was funded by DAAD, through the RISE program, for an internship at the Bernstein Centre for Computational Neuroscience. I worked on building realistic models of neural activity in cockroaches.

Research Intern

Summer 2016

AWARDS

EPSRC *PhD Studentship*, Full Fees & Stipend

January 2020

UCL Innovation & Enterprise, *Launch: Enterprise Contest* £1,500

December 2019

DurHack, *Best Use of Data* £50

January 2017

Durham University, *Travel Scholarship*, £250

August 2016

DAAD, *RISE Scholarship*, €2100

March 2016

BP, *STEM Scholarship*, £20,000

January 2014