## Jonas Osborn

Contact	Phone:         Email: jonas@jonas.co.uk         Github: github.com/Xzanth	
Profile	an M.Eng. Computer Science graduate from the University of Bristol keen to apply my ramming skills and knowledge of machine learning to interesting and difficult problems.	
Education	M.Eng. Computer Science, University of Bristol	2014 - 2019
	<ul> <li>Conducted a master's research project developing new machine learning "Learning change using density ratio estimation with conditional probab</li> <li>Units studied include: Machine Learning, Applied Deep Learning, Applied Statistics, Advance mance Computing, Advanced Computer Architecture, and Advanced Al</li> </ul>	bilities." wed High Perfor-
Projects	Heterogeneous Lattice Boltzmann Method Implementation (scored 80%) Implemented a highly optimised lattice Boltzmann method solver for running on heterogeneous super computers across multiple nodes with GPU accelerators.	
	Change Point Detection in Time Series Data - master's thesis (score Formulated two novel algorithms for change point detection in time series of density ratio estimation methods. Extended current research to target data we by estimating conditional probability ratios.	lata based upon
	Advanced Superscalar Processor Simulator (scored $75\%$ )	
	Developed a simulator for a modern computer processor in Python. Included such as a superscalar architecture, out of order execution and dynamic branch	
Skills	High Performance Programming	
	$\bullet$ Scored an average of 77% across three high performance computing country	rseworks.
	• Experience writing parallel code for supercomputers with both a dist model (MPI) and a shared memory model (OpenMP) as well as code for ( and extremely efficient serial code using intrinsics and assembly.	•
	Machine Learning	
	• Averaged 89% across Machine Learning course work in third year.	
	• Experienced at implementing algorithms in Python with packages such as NumPy, Jupyter and Tensorflow.	
	Software Engineering	
	• Major familiarity working in Python and C++, using Python for the majority of course work and personal projects and C++ for a large third year project and work as a developer.	
	• Extensive experience working in teams, collaborating using Git from two software engineering projects along with work at Legions: Overdrive.	arge university
Experience	Computer Science Tutor, Norfolk Summer School	2016 - 2019
	• Delivered subject tutorials over week long summer schools.	
	• Planned and presented lessons on key concepts of Computer Science to A-Level students.	
	• Conducted mock interviews to prepare students for university admissions.	
	Developer, Legions: Overdrive	2013 - 2016
	• Contributed to the development of a 3D video game: Legions: Overdrive, writing low-level engine code in C++ along with game functionality in scripting languages.	
	• Led the creation of a stats aggregation web application for collating an useful gameplay information from a large database of data.	d displaying the