## landon rabern

work history	
principal engineer: performance star analysis and fault detection for semiconductor manufacturing machines. wavelets, genetic programming, recurrent neural nets, probabilistic programming, gaussian processes, autograd. lots of reading and implementing ideas in research papers. (python, torch, java, keras, numpy, pandas, sklearn)	2019 -
data scientist: facebook worked with the world ai team to ingest and digest open street map diffs. helped create accurate population density maps of africa combining census data and satellite imagery (python, presto, giraph, hadoop, hive, gluster, C++, java, javascript)	2018 - 2019
senior staff engineer: iqvia built general diagram of things charting engine with arbitrary depth axis-aligned recursively nested, interactive, animated charts. chart components and databinding specified by an xml-based markup language used by a team of 100+ engineers in india to build client specific applications (C#, javascript)	2017 - 2018
cto, co-founder: lbd data built a suite of mobile video software for police and public transit. the suite is used throughout the united states. (C#, winforms, wpf, libavcodec, openstreetmap, opency, amazon s3, dynamodb, sql, javascript, html5, C++)	2008 - 2018
adjunct assistant professor, mathematics: franklin & marshall college taught math!	2014 - 2017
senior software engineer: markit on demand optimized middleware supporting hundreds of developers (C#, C++)	2010 - 2011
kernel engineer: synaptics improved reliability of touchpad driver (C++)	2009 - 2010
software engineer: markit on demand charts, reports, and tools for the financial services industry (C#, C++, html5, javascript)	2007 - 2009
scientific programmer: titan national security created software to model the effects of electromagnetic pulses on military systems (C++, C#)	2006 - 2007
education	
phd, mathematics: arizona state university o research: discrete math, combinatorics, graph coloring, games and algorithms	2011 - 2013
ma, mathematics: uc santa barbara ba, mathematics: washington university in st. louis	2003 - 2005 1999 - 2003
research, etc.	
<ul> <li>erdős number 2</li> <li>30<sup>+</sup> publications in top-tier discrete mathematics and philosophy journals</li> <li>1<sup>st</sup> place, mentor graphics state programming competition</li> <li>developed betsy, a strong chess AI, in C and x86 assembly</li> <li>built tesla coils and produced massive lightning bolts</li> </ul>	$2011 - \infty$ $2006 - 2020$ $1997 \text{ and } 1998$ $1998 - 2003$ $1997 - 1999$