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 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. | |
| erdős number 2 30⁺ publications in top-tier discrete mathematics and philosophy journals 1st place, oregon state programming competition developed betsy, a strong chess AI, in C and x86 assembly built tesla coils and produced massive lightning bolts | $2011 - \infty$ $2006 - 2020$ $1997 \text{ and } 1998$ $1998 - 2003$ $1997 - 1999$ |