
David J. Chudzicki

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WORK EXPERIENCE

Decision AI

Cofounder and CTO

March 2016 - Present

- Built app.decision.ai, a web app for simulating business situations (React frontend / GCP backend).

Amazon

Software Engineer

August 2017 - March 2020

- Built operations-related tooling (metrics reporting, alarms, CLIs used by oncalls, etc.) for AWS Elastic File System.
- Proposed and designed a new oncall structure for Elastic File System where engineers would be on call for their individual teams instead of the service as a whole. This meant problems were surfaced to the engineers most able to understand them and most incentivized to fix them, reducing overall oncall burden.

Wave

Software Engineer

December 2016 - June 2017

- Fought fraud with heuristics and machine learning; later, led engineering for the international transfers team.

DataRobot

Software Engineer

December 2015 - December 2016

- Expanded DataRobot's customer-facing API for interacting with its machine learning product by designing and implementing backend API routes, corresponding (Python and R) client package functionality, and providing API guidance to other teams implementing new functionality. I also helped customers see the value in automating their workflows, leading the API to shift from an afterthought to a major priority for the company.

Kaggle (7th employee)

Data Scientist & Software Engineer

January 2012 - August 2015

- Designed Kaggle's infrastructure for feature creation and fitting/evaluating models across a range of model types, feature sets, geography, and validation method (for our oil & gas consulting arm of the business).
- Spearheaded the use of interactive (Shiny) apps for exploratory visualization and visualizing the output of models. After some refinement, we used these apps in conversations with customers, leading customers to better understand and benefit from our work.

Allstate Insurance

Predictive Modeler

October 2011 - January 2012

Associate Predictive Modeler

April 2010 - October 2011

- Built predictive models as the basis for Allstate's homeowners and auto insurance rating plans.
- Proposed/prototyped a tool to measure the effect of implementing a rating plan with deviations from the model.

EDUCATION

University of Chicago

M.S. in Mathematics

October 2007 - March 2010

- Probability and statistics, functional analysis, stochastic differential equations, applied topology.
- Topic presentation: *Dynamical Systems: Bifurcation Under Symmetry*.

Swarthmore College

B.A. in Mathematics & Statistics, minor in Linguistics (GPA: 3.94)

September 2003 - June 2007

ACADEMIC RESEARCH

Department of Mathematics, University of Chicago

Graduate Research

April 2009 - March 2010

- Investigated machine learning methods for high-dimensional (esp. semi-supervised) settings that exploit a lower-dimensional manifold structure by finding a good basis for functions which are smooth on the manifold.

Mathematics and Statistics Department, Swarthmore College

Research Assistant

June - August, 2007

- Publication: S. Wang, D. Chudzicki, and P. Everson, 2009. "Optimal Estimators of the Position of a Mass Extinction When Recovery Potential is Uniform." *Paleobiology* 35:3, pp. 447-459.

TALKS

- **Open Data Science Conference 2017, Santa Clara:** data science tutorials (R, Python)
- **PyCon 2015, Montreal** (Tutorial): *Winning Machine Learning Competitions With Scikit-Learn*
- **Open Data Science Conference 2015, Boston:** *Data Workflows for Iteration, Collaboration, and Reproducibility*

- A talk about using GNU Make to organize a reproducible data science pipeline. (slides).

PROGRAMMING

- Extensive experience: Python (especially Python 3!), R.
- Some experience: Java, C#, JavaScript, Julia, MATLAB/Octave, SQL.