

Ryan Holben

mathematician • coder • teacher

contact

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interests

analytics
algorithms
data scraping
problem solving
machine learning

education

2007–2013	Ph.D. Mathematics	University of California, Irvine
2003–2007	B.A. Mathematics & Physics	Colby College

work experience

2015–Now	Visiting Assistant Professor	Furman University
	Calculus, probability, Markov chains, game theory	
2014–2015	Instructor	University of California, Irvine
	Calculus, linear algebra, differential equations, TA mentorship	
2007–2013	Instructor & Teaching Assistant	University of California, Irvine
	Lower & upper division mathematics through analysis & topology	
2006–2007	Research Assistant	Colby College
	Laser lab, model building, C++ for driving experiments	

projects

OKC Python, BeautifulSoup, Matplotlib, AWS, MongoDB
Scrapes data from a popular dating website, maintains a database hosted with AWS, and visualizes interesting demographics. Ongoing, aims to use machine learning to classify fake profiles.

Prettify Python, HTML/CSS, Javascript, Markdown
Automatically converts raw text notes for ICS-33 at UC Irvine into a user-friendly website for current students to use. Identifies code, ASCII diagrams, and English language using contextual clues, applying appropriate syntax highlighting.

RedditDB Python, Flask, PRAW, AWS, MongoDB
Precursor to OKC, scraped post and comment data from Reddit, storing in a database hosted on AWS. Used Flask to serve a user-facing website for adding to and querying the database for aggregate statistics.

technology

Languages

Python, C/C++, Lua, HTML/CSS, \LaTeX

Python modules

NumPy, pandas, matplotlib, Seaborn, Graph-tool, BeautifulSoup, Flask, PRAW

Other

SQL, MongoDB, Amazon Web Services, Git, iPython/Jupyter, Mathematica