

mathematician • coder • teacher

contact

education

rgholben@gmail.com

2007–2013 **Ph.D.** Mathematics

University of California, Irvine

(206) 359-5783

interests

analytics

algorithms

data scraping

problem solving machine learning

2003–2007 B.A. Mathematics & Physics

Colby College

github: Ryan-Holben

ryan-holben.github.io

work

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

AIPACA C. C++

Coded in a small team, AIPACA is a lightweight library that provides generic asynchronous data transfer using secure keys. Includes ability to create RESTful services, designed for use in any language both client-side and server-side.

RedditDB & OKC

Python, Beautiful Soup, Matplotlib, iPython, Flask, AWS, MongoDB

Pair of full-stack projects built with similar tech. Scraped data from websites into a NoSQL database hosted on AWS. One project used Flask to serve a user-facing website for interacting with the database, the other used iPython notebooks to visualize interesting user demographics.

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.

technology

Languages

Python, C/C++, Lua, HTML/CSS, LATEX

Python modules

NumPy, pandas, matplotlib, Seaborn, Graph-tool, Beautiful Soup, Flask, Selenium, Nose (unit testing)

Other

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