Timothy Kyle Thomas

Work Experience _____

Bank of America Charlotte, NC

AVP, QUANTITATIVE ANALYST

September 2018 - Present

- Customer valuation and media measurement team in the Analytics and Information Group
- Used the R-Python-SQL data science stack to drive insights into customer value and portfolio dynamics
- Maintained R Learning Hive and hosted monthly R Office Hours
- · Presented on various data science topics such as logistic regression, decision trees, and time series clustering

Harvard Business School

Cambridge, MA and Delhi, India

RESEARCH ASSOCIATE

September 2012 - August 2018

- Primary responsibilities included data collection, cleaning, and statistical analysis for faculty research projects. Select projects:
- Used **Python** and **regex** for **web-scraping** of SEC's archive of corporate filing.
- · Used machine learning algorithms to cluster company stores based on geospatial data from ArcGIS and US Census bureau.
- Created SQL database of employee and store data to study the impact of managerial decisions on churn.
- Applied econometric techniques such as instrumental variable **regression** and fixed effects for impact evaluation.
- Developed interactive **Shiny** app for quick analysis and prototyping of publication quality visualizations.

Roby Realty Charlotte, NC

FREELANCE WEB DEVELOPER

Sept 2015

• Used HTML, CSS, JavaScript, and PHP to develop a dynamic, mobile-friendly website for a real estate startup.

Select Published Materials _

Cases in Business Analysis and Valuation

Harvard Business Publishing

AUTHOR

- New Constructs: Disrupting Fundamental Analysis with Robo-Analysts: New Constructs faces business challenges and technical hurdles in engineering an NLP pipeline to deliver accurate financial information from corporate filings at scale.
- Air Products' Pursuit of Airgas: Challenges students to parse the financial analysis of management in an ongoing takeover fight.
- Walgreen and Alliance Boots: Explores the economic and social implications of pursuing a tax inversion.

Continuing Education _

Georgia TechAtlanta, GA

MASTERS OF SCIENCE IN ANALYTICS

September 2018 - Present

· Courses in Regression, Computer Science, Business Management, Financial Modelling, Data Science, and Simulation

Harvard University Cambridge, MA

HARVARD EXTENSION SCHOOL AND HARVARD COLLEGE

Sept. 2013 - May 2017

- Econometrics (A-): Rigorous overview of topics such as time series and instrumental variables using linear algebra and calculus
- Quantitative Methods in Economics ($\mbox{\bf B+}\mbox{):}$ Introduction to statistics via economic applications
- $\bullet \ \ \text{Building Dynamic Web Applications (\textbf{A-}): Built interactive web applications using Javascript and PHP}$
- Capital Markets and Investments (A): Built reproducible documentation in R for portfolio tracking

Degrees Earned

Harvard Divinity School

Cambridge, MA

MASTERS IN THEOLOGICAL STUDIES (GPA: 3.75)

Sept. 2010 - May 2012

• Concentration in Buddhism; 2 years of Sanskrit, 1 year of Chinese, Summer intensive course in German

Furman University
BACHELOR OF ARTS (GPA: 3.56)

Greenville, SC September 2005 - May 2009

• Double Major in Philosophy and Religion; courses in Logic and Finite Mathematics

Extracurricular _

Web Development; Data Analysis in R and Python

Charlotte, NC

PERSONAL DATA PROJECTS

Ongoing

- I maintain a blog and a Github that tracks my ongoing data projects written in Jupyter and RMarkdown notebooks. The website was originally written in a Python framework.
- · Financial Scatter Plot App: a proof of concept Shiny dashboard I created to visualize the relationship between financial metrics.
- Weather Comparison: a fun Shiny app for comparing weather with different cities.

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