







Michael Boerman

CONTACT

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PORTFOLIO

 [Explained by Michael YouTube channel](#)
 [Covid Lockdown Severity Index](#)
 www.michaelboerman.com

PROGRAMMING LANGUAGES

Advanced: R (tidyverse, Shiny, packages), L^AT_EX, regex, git/version control, linux
Proficient: SQL, Matlab, python, Tableau, Minitab, Adobe Creative Suite
Beginner: SAS, Stata, C++, HTML/CSS, javascript

PROFESSIONAL JOB HISTORY

Federal Reserve Board of Governors

Financial Systems Analyst (Data Engineering, DevOps) December 2021 - Present
Projects Worked: Data Engineering, ETL, and analysis for bank regulation data

- Write code to automate data collection and checks using R and SQL.
- Develop internal R package with convenience functions to save time on repeated SQL queries.
- Conduct data analysis (trends, outliers, etc) using Rmarkdown.
- Replaced manual status emails with dashboards using R Shiny.

Senior Research Assistant (Data Science, DevOps) May 2020 - December 2021
Projects Worked: Macroeconomic forecasting models used in U.S. monetary policy
Links to Work: [Predicting the Present](#) and [Covid Lockdown Severity Index](#)

- Wrote code in R and Matlab for statistical models and their visualizations.
- Refactored old, outdated, faulty code to meet robustness standards and unit tests.
- Cleaned data for research projects using R.
- Built and maintained documentation wiki in R Shiny.
- Studied and implemented econometric models using state-space time series, ARIMA, dynamic factor models, and Bayesian VAR.

EDUCATION

Georgia Institute of Technology, Atlanta, GA, USA
2019 - 2020
GPA: 4.0
M.S. in Economics, concentration in econometrics

University of Alabama in Huntsville, Huntsville, AL, USA
2015 - 2019
GPA: 4.0
B.S. in Industrial & Systems Engineering; Minor in Astrophysics

INTERNSHIP EXPERIENCE

NASA Space Launch System (systems engineering), Boeing 787 (supply chain management), General Electric (supplier quality engineering), Fulfyld (process improvement engineering).

CERTIFICATIONS

Six Sigma Green Belt, ASQ, Spring 2018
Tableau Desktop Specialist, Tableau, Fall 2019. [Link](#).
Engineer-in-Training Alabama FE, NCEES, Spring 2019