

JERIN VARGHESE

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📍 Ellicott City, MD

EXPERIENCE

Economist (Data Scientist)

U.S. Bureau of Labor Statistics

📅 10/2016 - Ongoing 📍 Washington, D.C.

- Received the DOL Secretary's Honor Award for developing a Python-based ETL system to produce state-level labor productivity and cost statistics
- Reduced the time to estimate and produce industry-level employment and hours data from 2 months to 2 weeks by converting a manual Excel-based process to an automated Python system
- Designed an interactive web dashboard application using Python that automated days of analysis and visualization to quickly extract important highlights and trends from new or revised data
- Led a cross-divisional team tasked with creating an improved SQL Server database in order to centralize all data produced by the office and to facilitate production and reporting tasks
- Worked as the lead programmer for statistical analysis and modeling with economic researchers from across divisions and from the Bureau of Economic Analysis on projects focused on developing new data products
- Compiled and presented analysis on trends and revisions for newly processed data to Supervisory Economists and the Office Associate Commissioner
- Spearheaded the use of Python and Git in the office by hosting numerous informative presentations and creating a series of tutorials and exercises

Research Associate

Econometrica, Inc.

📅 08/2015 - 10/2016 📍 Bethesda, MD

- Coded SAS programs for data extraction and statistical analysis on foreign and federal datasets
- Prepared a detailed economic analysis report of increased safety benefits and reduced violation case settlement costs for a petition to amend Pipeline and Hazardous Materials Safety Administration rules regarding cargo tank test pressures
- Created a VBA based data scraper to calculate distances between two ports for thousands of routes using the Google Maps Distance Matrix API
- Wrote up analysis on wages of airline, airport, and security workers for dozens of countries in Africa, Asia, Europe, and the Middle East

Quality Control Assistant

American Institutes for Research

📅 06/2015 - 08/2015 📍 Washington, D.C.

- Tested for and reported technical usage consistencies on multiple state online assessment reporting systems
- Specialized in creating system mock-ups through HTML and image editing to initiate testing process

Research Assistant

University of Maryland, College Park

📅 03/2015 - 06/2015 📍 College Park, MD

- Prepared statistical reports on career plans and salary distributions of the graduating class
- Contributed to preliminary cleaning and analysis of survey data using Microsoft Excel

EDUCATION

M.S. in Applied Economics

Johns Hopkins University

📅 05/2016 - 12/2019

GPA

4.0 / 4.0

- Coursework includes: Macroeconomic Forecasting, Microeconometrics (Cross-Section and Panel Analysis), Machine Learning in Statistics, and more

B.A. in Economics and Mathematics

University of Maryland, College Park

📅 09/2011 - 05/2015

TECHNICAL SKILLS

Python

SAS

SQL

Microsoft Excel

Git

Tableau

HTML

PUBLICATIONS

Intrasectoral transactions: the most important productivity statistic you've never heard of

Monthly Labor Review, U.S. Bureau of Labor Statistics

Thomas Kovarik and Jerin Varghese

📅 09/2019 🔗 <https://doi.org/10.21916/mlr.2019.20>

CERTIFICATES

Machine Learning Fundamentals with Python

DataCamp, October 2021

Time-Series Analysis and Forecasting

The National Association for Business Economics, December 2018

Data Analyst with Python

DataCamp, March 2018