
WORK AND RESEARCH EXPERIENCE

Green Brick Partners, Inc.

Plano, TX

Senior Financial Systems Analyst, Finance and Operations

Nov 2024 — Present

- Developing IBM TM1/Planning Analytics TI processes and business rules for financial planning and analysis, incorporating first- and third-party tools (PAW, Excel, FileZilla, Cognos Command Center, Arc, Pulse, TM1py, Git); enhancing processes to allow for daily instead of biannual forecasting cycles
- Managing and restoring Git repository backups for processes and rules, including compiling quarterly reports on change tracking and change management for SOX/ITGC audit controls
- Programmatically creating and manipulating 42 cubes, 88 dimensions, attributes, subsets, control objects, security, applications, and views in IBM TM1/Planning Analytics development, UAT, and production environments using multidimensional expressions (MDX), SQL, TurboIntegrator (TI) processes, and TM1 rules
- Extracting, transforming, and loading (ETL) job scrub, P/L, SGM, GL, KPIs, statistical entries, and budget data while automating calculations for actual and forecasted cash flows, KPIs, and milestones for financial models and reporting

Sales and Marketing Analyst, IT

May 2023 — Nov 2024

- Implemented and tested Salesforce development, UAT, and production environments, including training for 200+ end users (Salesforce CRM, Marketing Cloud, Sales Cloud, Data Loader)
- Created Salesforce standardized and ad hoc reports, dashboards, email templates, workflows, cadences, and flows for sales and marketing leadership
- System admin for ERP and business applications (Constellation NEWSTAR Sales & Enterprise, BuildPro, Calendly, DocuSign)

DocuNav Solutions

Frisco, TX

Support Engineer

Jun 2022 — May 2023

- Troubleshoot, built, and tested Laserfiche automation Workflow, Quick Fields, and Form processes
- Maintained non-clustered SQL servers (stored procedures, task scheduler, SSL certs, TLS config)
- Configured folder-, document-, and user-level security using admin consoles and Active Directory (AD)
- Administered internal IT support (workstation setups; printer, laptop, and peripherals troubleshooting)

Free Market Institute, Texas Tech University

Lubbock, TX

Economic Research Assistant

Aug 2020 — May 2022

American Institute for Economic Research*EC Harwood Visiting Research Fellow*

Great Barrington, MA

Dec 2018 — May 2019

Free Market Institute, Texas Tech University*Visiting Research Scholar*

Lubbock, TX

Sep 2018 — Dec 2018

Commonwealth Foundation*Research Fellow*

King of Prussia, PA

Jan 2017 — May 2017

Cato Institute*Intern Researcher at the Center for Educational Freedom*

Washington, DC

Sep 2016 — Dec 2016

EDUCATION

Texas Tech University, Department of Agricultural and Applied Economics*Master of Science in Agricultural and Applied Economics, GPA: 3.6/4*

Lubbock, Texas

May 2022

- Relevant coursework: Causal Inference, Economic Optimization and Machine Learning, Applied Econometrics I & II, Advanced Production Economics, Mathematical Economics, Advanced Market Analysis, Applied Macroeconomics, Applied Microeconomics I & II
 - R (tidyverse), Stata, Matlab, Python, SAS, \LaTeX
 - OLS, IV, TWFE, DiD, 2SDiD, RDD, matching (propensity score, kernel, entropy, Mahalanobis distance, KNN), synthetic control, event study, factor and cluster analysis, logit/probit, segmentation

CEVRO Institute, School of Political Studies*Master of Arts in Political Science, Philosophy, and Economics (PPE)*

Prague, Czech Republic

Jun 2019

- Scholarship:** Full Tuition for Excellence

University of Michigan, College of Literature, Science, and the Arts*Bachelor of Arts in General Studies (Political Science, Philosophy, and History)*

Ann Arbor, MI

Apr 2016

CERTIFICATIONS AND EXAMS

- PostgreSQL for Everybody Specialization ([LDV5VWF4QFUE](#)) Coursera, May 2024
 - PostgreSQL, DBBeaver, NoSQL, Elasticsearch
- Web Applications for Everybody Specialization ([K85V99DMXY4U](#)) Coursera, Oct 2023
 - MySQL, PHP, JavaScript, jQuery, JSON, XAMPP
- Applied Data Science with Python Specialization ([9E4EZST8HHFE](#)) Coursera, Aug 2023
 - Python (regex, NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, NLTK, NetworkX), gradient descent, random forest, decision tree, SVC, linear and logistic regression, Lasso, KNN, Naïve Bayes, clustering
- Django for Everybody Specialization ([SVTRKEJV62T6](#)) Coursera, Jul 2023
 - Django, SQLite3, HTML5, CSS, JavaScript, Bash
- Passed Probability exam Society of Actuaries, May 2023