
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 weekly, quarterly, and ad hoc reports, dashboards, email templates, workflows, cadences, and flows for sales and marketing end users and management
- 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

Lubbock, Texas

Master of Science in Agricultural and Applied Economics, GPA: 3.6/4

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

Prague, Czech Republic

Master of Arts in Political Science, Philosophy, and Economics (PPE)

Jun 2019

- Scholarship:** Full Tuition for Excellence

University of Michigan, College of Literature, Science, and the Arts

Ann Arbor, MI

Bachelor of Arts in General Studies (Political Science, Philosophy, and History)

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