PAPPAS, TROY J.

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EDUCATION

Bridgewater State University

B.S. in Mathematics, Statistics Concentration	**May 2017**
B.S. in Economics	**May 2017**

ACTUARIAL EXAMINATIONS

Probability	**May 2018**
Financial Mathematics	**February 2019**

EXPERIENCE

Office of the State Auditor

Data Analyst I   **April 2019 - Present**

Organization-wide consultant for the acquisition and analysis of data from a variety of state agencies, in addition to managing the full implementation and life cycle of several BI models, including operational dashboards for executive staff and self-service multidimensional models for statewide data. See *Projects*.

Somerset Berkley Regional High School

Head Varsity Wrestling Coach   **2016 – 2018**

Coordinator of a sports program with responsibilities including managing staff, planning multi-organization events, and skill development.

Math Services, Bridgewater State University

Peer Assisted Learning Leader   **2016–2017**

Equivalent of teacher's assistantship.

Walk-in Tutoring Associate   **2015 - 2017**

Communication of technical content to an audience with varying ability levels.

PROJECTS

Power BI Operational Reporting Dashboard   **September 2019**

End-to-end implementation of a dynamic, interactive Power BI report for agency executives which involved the integration of operational data stores for multiple production systems. A focus on intuitive design and intensive subject matter research made the dashboard a widely adopted business intelligence solution among stakeholders.

SSAS Multidimensional Self-Service Data Model   **July 2020**

An MS SQL Server Analysis Services solution enabling users to query a 100M+ row statewide expense data set in seconds.

Python Text-Based Matching   **May 2021**

A Python-based process which identifies the most likely match for a collection of state vendors leveraging the Levenshtein text distance metric. Later refactored to run faster and more efficiently on the Azure Databricks platform.

Tableau Map   **July 2021**

Interactive Tableau map displaying election cost data by municipality.

Python Automation Software   **July 2021**

An extensible Python application with custom classes for database, REST API, and email server connectivity as well as Microsoft Office integration that automated a number of manual tasks.

Other   **Ongoing**

Several additional end-to-end business intelligence solutions delivered as Power BI dashboards with steps including identification of business needs, subject matter research, project proposal, requirement gathering, ETL/data modeling, data analysis, report development, deployment, solicitation of feedback, triage/maintenance, and continuous improvement; several additional multidimensional data models based on other statewide data sets; many ad hoc SQL, Python, R and Excel reports and solutions developed for audit-specific needs.

Advanced
SQL Data Modeling & Integration
Power BI/Tableau
Python Data Manipulation & Process Automation
Technical Communication & Documentation

Intermediate
Python Back End Web Development (Flask)
Source Code Management
CLI/Shell Programming

Beginner
Front End Web Design – JavaScript, HTML/CSS
C#/.NET