George Miliaras

gmiliaras@college.harvard.edu - website - github - +1 (617)-949-1627

Education

Harvard University	**May 2023 (Expected)**
Bachelor of Arts in **Computer Science**	GPA: 3.4 out of 4.0

Minor in Statistics

Relevant coursework: Data Structures and Algorithms, Advanced Topics in Data Science, Machine Learning, Artificial Intelligence, Stochastic Processes, Abstraction and Design in Computation, Computer Systems Programming

Experience

Ernst & Young - Data & Analytics Consultant   **Athens - Greece**

Business Intelligence Developer (Full-time)   **Dec 2022 - Jul 2022**
- Coordinated a team of five developers in migrating PowerBI data models to OLAP cubes resulting in a 10x load time improvement
- Created the OLAP cube solutions in SQL Server Analysis Services (SSAS) using Visual Studio
- Cooperated with the Data Modeling and Data Generation teams to address problems in the data
- Implemented version control using Git DevOps and maintained project documentation

Business Intelligence Developer (Intern)   **Aug 2021 - Dec 2021**
- Developed PowerBI dashboards for a big data Supply Chain Intelligence Platform
- Leveraged 50GB of data to create data visualizations and wrote and optimized complex DAX queries
- Designed SQL queries to validate the results and calculate important metrics
- Pioneered project documentation that rapidly improved development and new member onboarding
- Resolved over 150 bugs in previously developed and new dashboards
- Identified inefficiencies that affected over 20% of the dashboards and led meetings to technical meetings to present and propose solutions
   Technologies: SQL, SSAS, SSMS, PowerBI, DAX, SSAS, AzureDevOps, Git, Visual Studio

Projects

Spotify ETL   **Jul 2022 - Aug 2022**
- Built a ETL pipeline using Apache Airflow to scrape the Weekly Top Songs from Spotifycharts
- Extracted song features and characteristics for over 14000 songs using the Spotify REST AP
- Data modeled and stored the results in an SQLite database
- Established a weekly automated Apache Airflow process to run the pipeline and display results in PBI
   Technologies: Python, Apache Airflow, Selenium, BeautifulSoup, PowerBI, Spotify API, SQLite

Forecasting Bacterial Behavior in the Microbiome   **May 2021 - Jun 2021**
- Predicted the future bacterial makeup of the microbiome of mice by utilizing data from over 1400 bacteria drawn over a 60 day period
- Implemented Tensorflow ETL pipelines to prepare data for analysis and training
- Employed clustering techniques to reduce data dimensionality to 199 clusters
- Created forecasting models in Python using an Auto Regressive Integrated Moving Average (ARIMA) model and a Vector Autoregressive (VAR) model
   Technologies: SciPy, StatsModels, Scikit-learn, PyMC3, Tensorflow, Matplotlib

Argo   **Oct 2020 - Dec 2020**
- Designed and prototyped in a team of three developers an iOS journaling app that promoted self-care and mindfulness by integrating gaming and journaling elements
- Established features ranging from back-end support, to visuals, animations, and general game mechanics using C# and the Unity Game Engine
   Technologies: Unity, C#

Skills

- **Languages:** Python, C/C++, C#, HTML, CSS, JavaScript, R, DAX, SQL, OCaml
- **Data Science:** ML Algorithms, NLP, Tensorflow, Keras, PyTorch, Scikit-learn
- **Tools**: PowerBi, Tableau, IBM Watson, Apache Airflow, GitHub, SSMS, SSAS