SHANE M. GALLAGHER

Shane.M.Gallagher@gmail.com

https://github.com/smg7d https://shanegallagher.herokuapp.com (703) 856-5460

SKILLS

Languages: C#, Python, C++, C, R, Javascript, MS SQL, VB.NET **Tools/Frameworks:** .NET Core, Azure, Bash, Git/GitHub, Heroku

WORK EXPERIENCE

Loyal | Data Engineer

October 2019 – Present

- Create .NET Core based ETL pipelines to import data from client databases in an automated fashion, working with technologies such as APIs, FTPS/SFTP, authentication methods, ORMs, Redis, MS SQL, and Azure.
- Create custom SQL views to research, evaluate, and fix data issues as well as validate successful onboarding.
- Maintain thorough and easy to read documentation to facilitate cross-team collaboration and ensure consistency.

Invesco | Sr. Associate CPM – Fixed Income Quantitative Investing

August 2014 – September 2019

- Used R to implement statistical methods such as PCA, clustering and linear regression for competitor analysis.
- Created ad hoc VBA-based tools for various investment teams, primarily dashboards and prediction models.
- Created and delivered internal product messaging for a suite of quantitative fixed income ETFs across the firm.
 Primarily directed towards the sales force, this included whitepapers, sales decks, and other collateral.

Fannie Mae | Financial Analyst I

August 2012 – August 2014

- Automated complex monthly accounting processes using VBA and SQL, saving roughly 50 hours of work a month.
- Modeled new CMO deals and assisted in the quarterly forecast of the firm-wide balance sheet.

EDUCATION

University of Virginia, Charlottesville, VA.

August 2012

Masters of Science in Commerce (Finance concentration).

University of Virginia, Charlottesville, VA.

May 2011

August 2016

Bachelor of Arts with majors in Economics and English.

CFA Institute

• Charterholder since 2016. Completed all three levels on the first attempt.

PROJECTS/PUBLICATIONS/COMMUNITY

PyAtl Steering Committee – Speaker Coordinator

August 2019-Present

Responsible for booking new, diverse, and interesting speakers to present at our monthly meetups.

The Friendship Paradox (Python: Requests, Pandas, Seaborn)

July 2019

- Verified a proven property of social network graphs by gathering, exploring and visualizing data from Instagram.
- Addressed API call limits by programmatically switching accounts and caching data to prevent duplicate calls.
- Minimized 12 day run time by offloading API calls to a raspberry pi and using Twilio SMS to send status updates.

ASCII Zelda (C++: Standard Library)

February 2018

- Created a console-based video game with over 20 classes representing various player, space, and item objects.
- Achieved zero memory leaks by dynamically allocating and freeing heap memory comprehensively.

Chat Application (VBA, SQL)

May 2017

- Created an Excel-based application that uses SQL and VBA read and write to a central "chatroom" file.
- Implemented chat functions through a GUI based on Excel's native userforms.

"Responsible Investing in Focus: Emerging Market Bonds" Risk and Reward, Invesco ltd.

May 2018

• Gathered, cleaned, and visualized data to summarize the tradeoffs of responsible investing in emerging markets.