

Steven R. Monaghan

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EDUCATION

George Mason University, Economics M.A. 2018

Sonoma State University, Mathematics B.A., Economics B.A. 2015

EXPERIENCE

Quantitative Analyst - Software Engineer

August 2018 - Present

CFRA Research - Rockville, MD

- I automated several reporting procedures that were previously done by hand saving hundreds of hours of work. Additionally, I architected and developed an internal dashboard that displayed the results of these reports using react.js/bootstrap/plotly on the front-end and python/flask to handle ingestion and transformation on the back-end.
- I designed and architected the cloud infrastructure for the Quantitative team's ETF/MF reports in AWS. Each component Docker image was built and deployed to ECR using the code-pipeline CI/CD system that pulled from github. Containers were scheduled to run by CRON jobs and deployed to Batch for parallel computation.
- I developed programming interfaces to the Capital IQ and Ice bond data APIs in Python to assist developers on the Quantitative team who were less familiar with the REST API protocol.
- I wrote and maintained several repositories, as well as maintained a few legacy CFRA applications written in Python and Java. I reviewed and gave feedback and assistance to several other quants and engineers making commits to these repositories.

Python Developer - Contract

March 2018 - August 2018

General Electric - Wilmington, NC

- I developed web applications that delivered machine learning analytics to the nuclear industry as full-stack developer on an agile team.
- I built back-end ETL and REST API protocols with Python/Flask to deliver data to front-end application. I also assisted with front-end development utilizing Node.js/Polymer.js.

Research Assistant

January 2016 - March 2018

Mercatus Center - Arlington, VA

- I was responsible for developing web applications in Python/Django that were used in economic experiments. I hosted and maintained on Heroku cloud infrastructure.
- I conducted research on experiments with non-parametrics statistics in R/Python

Database Administrator

August 2013 - December 2016

AMS.Net - Livermore, CA

- I remotely maintained company's Salesforce database.

COMPUTER SKILLS

Programming/Scripting Languages: Python, Javascript, C#, HTML, SQL, Bash

Statistical Libraries: Pandas, R, Stata

Web Frameworks: Flask, Django, React