

# Morgan Squire, ACAS

## Data Scientist

Innovative Data Scientist and Actuary with six years of experience modernizing and automating analytical processes. Passionate about implementing software development best practices into model development.

**Location** Riverview, FL  
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## Skills

Languages	Development Tools	Statistical Modeling	Data	Package Development
Python	Git	Generalized Linear Modeling	Hive	Unit Testing
R	VSCode	Generalized Additive Modeling	Parquet	Docstrings/Roxygen
SQL	RStudio	Downsampling/Upweighting	Snowflake	Logging
Latex	JupyterLab	Regularization	Partitioning	Debugging
	Conda	Tree-Based Machine Learning	JSON	Markdown

## Experience

### USAA

2016 - Present

#### Associate Actuary

2020 - Present

- Overhauled the Homeowners loss models to incorporate claim type into claim surcharges to reduce subsidy
- Led a team of 4 in the development of an internal Python package using H2O and scikit-learn
- Reduced model fit times by 50% by implementing a model pipeline cache
- Mentored Data Scientists and Actuaries on Python package development to include unit testing, documentation, website publishing, logging, debugging, and git branching strategies.
- Designed and delivered 6 hours of interactive training for a team of 12 model developers including a tutorial Git repository that covered Python, Git, H2O and an internal model development Python package
- Established 14 virtual machines to enable a team of model developers to fit models on a 40 GB dataset in H2O
- Presented complex technical improvements to executive leadership on multiple occasions

#### Actuarial Analyst

2017 - 2020

- Developed an advanced process for territorial smoothing that incorporated thin plate splines in a Generalized Additive Model in R
- Coordinated with the Texas Department of Insurance to secure approval of a new capital allocation strategy
- Designed and published an R package with tools for connecting to internal databases and estimating within-class and between-class variance
- Trained the modeling community of practice on R package development tailored to internal systems
- Optimized deductible rating factors using R to calculate granular loss elimination ratios which enabled the rollout of new deductible options
- Filed many rate changes in Homeowners, Renters, and Rental Property lines of business

#### Actuarial Modeling Intern

2016

- Adjusted the countrywide Homeowners model to meet state-specific requirements
- Designed an Excel VBA program to automatically generate model performance plots from model outputs.

## Education

### Bachelor of Science in Applied Mathematics

December 2016

University of Evansville, Summa Cum Laude

## Credentials

### Associate of the Casualty Actuarial Society

2019