Morgan Squire, ACAS

Data Scientist

An innovative and fast-learning professional with 6 years of experience with a track record for modernizing and automating analytical processes.

Location Tampa, FL
Phone (555) 555-5555
Email first.last@domain.com
LinkedIn https://www.linkedin.com/in/yournamehere/
GitHub https://github.com/githubhandle

Skills

Languages	Development Tools	Statistical Modeling	Other
Python	Git	Generalized Linear Modeling	Bash
R	VSCode	Generalized Additive Modeling	Unit Testing
SQL	Rstudio	Downsampling/Upweighting	Quarto
Latex	JupyterLab	Regularization	
Markdown	Conda	Tree-Based Machine Learning	
YAML			

Experience

USAA — 2017 - Present

Associate Actuary — 2020 - Present

- Oversaw the creation of new data assets to support the implementation of new rating factors
- Researched the effect of down-sampling on GLM hypothesis tests and the calculation of the dispersion parameter
- 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
- Provisioned 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 an R package with tools for connecting to internal databases and routine tasks for pricing analysts
- Trained the modeling community of practice on R package development tailored to internal systems
- Overhauled the Homeowners loss models to incorporate claim type into the surcharge to reduced subsidy
- Optimized deductible rating factors by creating an R function to calculate the loss elimination ratios at a granular level that could be iterated on rapidly
- Filed several rate changes in Homeowners, Renters, and Rental Property lines of business

Education

Bachelor of Science in Applied Mathematics — December 2016

University of Evansville, Summa Cum Laude