

Anthony Joseph (AJ) Bucci

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SKILLS / INTERESTS

Languages

Python, Java, SQL, JavaScript/HTML/CSS, R, Bash/PowerShell

Infrastructure/Cloud

AWS Cloud, Docker/Podman, LXC/LXD, Linux, Git, CI/CD

Interests

Open-source software, Raspberry Pi, Arduino, Self-hosting, Neovim, 3D Printing, DIY, Songwriting/Performing, Roasting Coffee

EXPERIENCE

Farmers Insurance (formerly MetLife Auto & Home)

2013 - 2024

Senior Actuarial Consultant 2017 - 2024

Senior Actuarial Analyst 2015 - 2017

Actuarial Analyst 2013 - 2015

- Led the development and deployment of a machine-learning inference application written in R and SQL using pretrained generalized linear models (GLM), contributing to a national product launch and replatforming that added over a hundred million dollars in new revenue.
- Automated the generation of implementation tables and regulatory documents from model factors in R, saving hundreds of hours of analyst work and eliminating a source of human error in production.
- Developed a method for adapting countrywide generalized linear models for use in state specific markets, successfully launching in 30+ states.
- Refactored Python ETL pipelines, adding vectorized code and optimizing control flow, reducing total lines of code by a third and enhancing performance and maintainability.
- Established development processes for shared codebases, including Git workflows, Python and R style guides, automated testing, and dependency management.
- Implemented standard actuarial ratemaking methodologies in R, creating an enhanced backtesting framework.
- Led R training sessions drawing participants from across the organization, advancing the transition from Excel-based methods to reproducible automated workflows.
- Created an interactive dashboard in R/Shiny/Leaflet using a choropleth map for plotting performance metrics by user-defined subsets, simplifying the presentation of business insights for the leadership team.

PROJECTS / OPEN-SOURCE CONTRIBUTIONS

- NBA boxscore and play-by-play scraper built with Python on AWS Lambda aggregates scraped data in near real-time before uploading to S3 for downstream analytics.
- Core contributor: <https://github.com/streamdeck-linux-gui/streamdeck-linux-gui>

EDUCATION

University of Rhode Island, BS in Physics