

RYAN THOMAS, FCAS

Actuary with 16 years of experience who loves to build tools and analyze data, mostly in R. Tidyverse advocate. Azure novice. Git green belt. Passionate about bringing actuarial work out of the spreadsheet into scripted, reproducible code.

PROFESSIONAL EXPERIENCE

Present
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2015

● **Director - Risk (Risk & Analytics)**

Willis Towers Watson

 New York, NY

- Foster team R programming and DevOps skillsets
- Mentor junior staff in statistical modeling and actuarial concepts
- Supervise teams building actuarial data products for internal use
- Design data visualizations for data products and presentations
- Educate data product users via training sessions and user guides
- Promote firm's analytics capabilities through client demos
- Develop reproducible data pipelines in R and SQL
- Establish data schema to standardize data pipeline across products
- Create R packages to facilitate data product development
- Restructured R model as Plumber API in production in Linux containers
- Designed Matlab classes for consistent simulation models

2015
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2014

● **Actuary Manager**

Ernst & Young, LLC


 New York, NY

- Managed teams of junior actuaries on reserving engagements
- Analyzed actuarial reserve for corporate and insurance company clients

2014
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2010

● **Corporate Actuary**

Partner Reinsurance Company

 Greenwich, CT

- Guided internal pricing model development team
- Quantified cost of property and agriculture reinsurance contracts
- Modeled retrocessions terms using monte carlo simulation in R
- Coordinated quarterly risk dashboard for Group Risk Officer
- Analyzed claims data to produce US reserving loss development factors
- Streamlined actuarial workflows with SQL and Excel/VBA

2010
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2007

● **Assistant Actuary**

Unitrin Business Insurance/AmTrust

 Dallas, TX

- Supported senior underwriters through data analyses
- Analyzed claims data to produce short tailed loss development factors
- Streamlined actuarial data pipelines with SQL, Excel, and VBA

2007
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2004

● **Actuarial Technician**

Dean Actuaries, LLC

 Dallas, TX

- Delivered improvements to pension web app with PHP and MySQL
- Responded to client requests for benefit information
- Reconciled 200+ public pension plans every month

EDUCATION

2003
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1999

● **Texas A&M University**


B.S. Applied Mathematics

 College Station, TX

CONTACT INFO

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SKILLS

Experienced in actuarial reserving and large account pricing

R, Rmarkdown, R packages, Shiny

Linux, SQL, git, Matlab

VOLUNTEER

Adviser to kasa.ai since Jan 2019.

Member of [IFoA Machine Learning in Reserving Working Party](#) since Feb 2020.

CERTIFICATIONS

Fellow of the Casualty Actuarial Society (2012)