

# Ethan Brockmann

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## Programming Experience

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- 3 years using SQL to query large (>10,000,000 rows) data sets and compile insightful reports for company management
- 1.5 years of experience using both pandas/scikit-learn/matplotlib in Python and the tidyverse in R for data science
- 1.5 years of experience building static and interactive reports with R Markdown, Jupyter notebooks, and R Shiny
- Front-end and back-end university classes in C++ and Python
- Experience creating, reviewing, and updating large Excel models, often including VBA development
- Author and maintainer of the edgedata package on CRAN
- Familiarity with git/Github, C, HTML, CSS, and Javascript

## Education

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Bachelor of Science in Mathematics. Minor in Computer Science. Mississippi State University, Starkville, MS. GPA 3.92/4.00. May 2017

Passed actuarial exams P, FM, IFM, SRM, and LTAM

## Research Experience

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Undergraduate Research Project in Graph Theory. Mississippi State University. August 2015-December 2015

- Worked with the independence polynomials of claw free graphs and trees
- Paper available here: <https://osebje.famnit.upr.si/~russ.woodroofe/ethan-brockmann.pdf>

## Work Experience

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**Actuarial Analyst.** BlueCross BlueShield of Mississippi. Flowood, MS. June 2017 – Present

- Go-to analyst for data requests from the CFO and CEO
- Lead analyst on individual and large group pricing and trend
- Created an interactive, longitudinal report to track the predictive power of a licensed predictive model
- Working knowledge of many statistical methods
- Deep understanding of Markov Chain models from passing actuarial exam LTAM
- Strong basis in probability and statistics from actuarial exams and actuarial VEEs
- Decision-maker for all things related to EDGE server and risk adjustment, saving the company millions of dollars each year
- Author and maintainer of an internal R package to safely interact with the company's database

**Actuarial Student Intern.** BlueCross BlueShield of Mississippi. Flowood, MS. May 2016 – August 2016

- Assisted actuarial personnel in core actuarial functions
- Capstone project involved building member risk profiles with diagnosis codes and searching for suspected missing codes
- Presented findings to the CFO