

Ethan Brockmann

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Work Experience

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

- Entrusted with leading the R and data science movement at the company
- Became the go-to analyst for data requests from the CFO and CEO
- Created organization's first R Markdown report, first Shiny application, and first package
- Achieved this while maintaining core actuarial work such as researching data sources and gathering data, verifying data integrity, updating actuarial models, and preparing financial, enrollment, and ad hoc reports

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

Math Tutor. Mississippi State University. Starkville, MS. November 2014 – December 2015

- Provided additional help to students in historically difficult classes
- Helped one student improve 30% from test 1 to test 2
- Tutored students in algebra, trigonometry, calculus, linear algebra, basic mathematical proof classes, and chemistry

Programming Experience

- Author and maintainer of the `edgedata` package on Github
- Experience developing R Markdown documents, Shiny applications, and an internal organizational R package
- Current position involves updating Excel models with regular VBA development
- University classes and data analysis in Python
- Built data structures such as binary trees and linked lists in C++
- Authored research paper and senior seminar papers in \LaTeX

Education

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

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>
- Sage code available here: <https://osebje.famnit.upr.si/~russ.woodroofe/ethan-brockmann.sage>