Ethan Brockmann

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Programming Experience - R, Python, C, C++, SQL, VBA

- 3 years using SQL and SAS to query large (>10,000,000 rows) data sets and compile insightful reports for company management

- 1.5 years of experience using Python and 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

- Familiarity with git/Github, C, HTML, CSS, and Javascript

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`

Work Experience

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

- Thorough knowledge of the Mississippi individual and small group ACA markets

- Deep understanding of the Patient Protection and Affordable Care Act

- Decision-maker for all things related to EDGE server and risk adjustment

- Working knowledge of select statistical learning methods, such as linear regression and random forests

- Theoretical understanding of many other statistical learning methods

- Author and maintainer of an internal organizational R package for safely working with company's database

- Go-to analyst for data requests from the CFO and CE

- Passion for automating as many things as possible

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

- Tutored students in algebra, trigonometry, calculus, linear algebra, basic mathematical proof classes, and chemistry