

# Spencer Eanes

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## EDUCATION

### ST. OLAF COLLEGE

Northfield, MN

Graduation: May 2020

Magna Cum Laude

GPA: 3.90 / 4.0

### DEGREES

B.A. Mathematics

B.A. Computer Science

Concentration in Statistics  
& Data Science

### EVANSTON TWP. HS

EVANSTON, IL.

Graduated May 2016

with High Distinction

## COURSEWORK

Algrms for Decision Making

Algrms & Data Structures

Adv Statistical Modeling

Statistical Modeling

Data Management

Linear Algebra

Differential Equations 1&2

Abstract Algebra

Calculus I-III

## SKILLS

### LANGUAGES

JS • C# • R

Python • Cache

### TOOLS

Bash • Git •

LaTeX • React

## OTHERS

### EXTRACURRICULARS

Studied abroad in

Aberdeen, Scotland

Tutor & Grader

REAL Training

Stewardship Assistant

### LINKS

SpencerEanes.org

linkedin.com/in/SpencerEanes

github.com/SpencerEanes

## EXPERIENCE

### EPIC | SOFTWARE DEVELOPER

JULY 2020 – PRESENT | MADISON, WI

- Develop a browser-based telehealth video conferencing solution to allow integrated and downloadless video visits for providers and patients.
- Effective team member in Agile two-week sprint release framework, with a core role in updating video client front-end into the React framework as well as simplifying C# server backend.

### ZS ASSOCIATES | DECISION ANALYTICS ASSOCIATE INTERN

JUNE – AUG 2019 | EVANSTON, IL

- Measured the business impact of a >\$100 million dollar patient services program of a F200 biopharma using test-control analyses on claim and patient level data.
- Created long-term forecast for the new formulation of a blockbuster immunology product; results presented to a brand senior VP.
- Communicated effectively in person and by email in client interactions, project presentations, and work handoffs with the India team.

### NATL. CENTER FOR EDUCATION STATISTICS | JPSM JUNIOR FELLOW

MAY – AUG 2018 | WASHINGTON, DISTRICT OF COLUMBIA

- Statistically analyzed federal datasets, 2015-16 School Survey on Crime and Safety and 2016 National Household Education Survey. Publication on cyberbullying and cell phone use from NCES in January 2019.

## PROJECTS

### CENTER FOR INTERDISCIPLINARY RESEARCH | FELLOW

Participated in a year long interdisciplinary research project on fossil coral. Analysis was performed on Uranium concentration in coral skeletons as a proxy for past ocean conditions related to climate change using techniques such as multiple linear regression, and bootstrapped regularized regression. Publication in review.

### POLYGON VISIBILITY WEB APP | DEVELOPER

Implemented a fast polygon visibility graph algorithm to compute visibility edges between vertices of polygons in  $O(n^2 \log n)$  time. Built code in R using the SF package, and created a RShiny interactive web application, available at SpencerEanes.org. Paper and code available at github.com/SpencerEanes.

### MMA CLUSTERING ANALYSIS | ANALYST

Scraped data on over 3000 UFC fighters from ufcstats.com using R. Used ML techniques such as PCA, k-means and hierarchical clustering, and penalized logistic regression. Results available at SpencerEanes.org.

## AWARDS

|      |               |   |
|------|---------------|---|
| 2020 | National      | USRESP Undergrad Statistics Research First Prize Winner |
| 2020 | National      | Phi Beta Kappa Inductee                                 |
| 2018 | International | CoMAP ICM Competitor, Honorable Mention                 |
| 2017 | National      | USCLAP Introductory Statistics First Prize Winner       |
| 2016 | National      | National Merit Commended Scholar                        |
| 2016 | National      | National Honors Society Inductee                        |