

# Shraddha Anand

Software Engineer

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## EDUCATION

### WELLESLEY COLLEGE

Bachelor of Arts: Double major in Mathematics (Honors) and Economics

Wellesley, MA  
Sept. 2017 - May 2021

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

Cross-registered student

Cambridge, MA  
Sept. 2019 - May 2020

### GENERAL ASSEMBLY SOFTWARE ENGINEERING IMMERSIVE PROGRAM

An intensive, 12-week, 400+ hour full-stack software engineering training program.

Boston, MA  
May 2022 - August 2022

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, JavaScript, SQL, HTML, CSS, R, Stata

**Software:** Spring Boot, React, Django, Mongoose, MongoDB, PostgreSQL, Node, Express, API, AJAX, Git, GitHub

**Coursework:** Probability Theory and Statistics, Complex Analysis, Topology, Causal Inference, Statistical Modeling

## PROJECTS

### Redoit | Team Project

July 2022

- As SCRUM Lead, led a team of 4 software engineers in creating a Full Stack (MERN) social media application that allows users to connect and share their thoughts by making posts, commenting on posts, and up/down voting posts.

- Technologies used:** React, JavaScript, Bootstrap, HTML, CSS, Heroku, MongoDB, Mongoose, Node, Express

[Website](#) | [Deployed Backend](#) | [Code](#)

### TravelTips | Solo Project

June 2022

- Designed and built a website where a user can enter their travel destination and get information about the weather, local news, and hotels and restaurants in the area.

- Technologies used:** React, JavaScript, HTML, CSS, 3<sup>rd</sup> Party APIs

[Website](#) | [Code](#)

### The Power Advantage of Correctly Analyzing Rerandomized Experiments | Senior Thesis

Feb. 2019 – present

- Designed experiments in R to quantify the power advantage of the rerandomization test as opposed to the t-test. Studied conditions where this power advantage is most prevalent. Extended the field of rerandomization by studying criteria other than the Mahalanobis distance to balance samples and analyze power advantages.

[Paper](#)

## WORK EXPERIENCE

### HARVARD BUSINESS SCHOOL, STRATEGY UNIT

Cambridge, MA | July 2021 – June 2022

- Researched techniques to map Twitter profile information to occupation to study the #MeToo movement.
- Created graphs and analyses used in official course material in a required, quantitative graduate course at HBS.
- Took graduate economics courses at Harvard Graduate School Arts and Sciences (GSAS)

### WELLESLEY COLLEGE

Wellesley, MA | June 2018 – Sept. 2020

- Used STATA to clean and analyze firm-level data from World Bank's Enterprise Survey.

### Teaching Assistant (Mathematics and Economics Department)

Jan. 2018 – May 2019

- Held review sessions and office hours weekly for sections of 30 students for the following courses: Multivariable Calculus, Linear Algebra, Introductory and Intermediate Microeconomics.
- Graded problem sets for 25 students/section for the following courses: Applied Data Analysis and Statistical Inference, Math for Economics and Finance, Introductory Microeconomics.

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA | June 2019 – Oct. 2021

- Led code review process of STATA files, prepared analyses for project, and led transition from Dropbox to GitHub
- Cleaned and merged USA precinct-level 2016 election datasets into a mature, open-source code repository

### INTERNATIONAL MONETARY FUND

Washington, DC | Feb 2020 – Oct. 2021

- Wrote a paper which disentangles the relationship between public and private investment at the state level in India.
- Created a novel state-level investment dataset using the CapEX-CMIE database

[Presentation](#) | [Code](#)