

# Anish Saha

Full Stack Developer | Student @ UC Berkeley

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## PROFILE

Graduating senior double majoring in Applied Mathematics and Data Science. Diligent and versatile software developer seeking interesting and impactful projects to gain industry experience.

## EDUCATION

University of California, Berkeley  
Berkeley, CA · 2015 - 2019 · GPA: 3.10  
B.A., Applied Mathematics  
B.A., Data Science

## COURSEWORK

- CS 61A – Computer Program Structure and Interpretation
- CS 61B – Data Structures
- CS 61C – Computer Architecture
- CS 70 – Discrete Mathematics and Probability Theory
- CS C100 – Principles and Techniques of Data Science
- CS C131 – Computational Models of Cognition
- CS 160 – User Interface Design and Development
- CS 161 – Computer Security
- CS 188 – Introduction to Artificial Intelligence
- CS 198 – iOS Development
- STAT C8 – Foundations in Data Science
- STAT 133 – Concepts in Computing Data
- STAT 142 – Intro to Data Analytics and Machine Learning
- MATH 104 – Introduction to Analysis
- MATH 110 – Linear Algebra
- MATH 113 – Abstract Algebra
- MATH 128A – Numerical Analysis

## LANGUAGES

Python / Java

Front-end Frameworks (HTML/CSS/JS)

C / C++

Swift / Objective-C

SQL / NoSQL

\* Also proficient with MATLAB, LaTeX, GoLang, R, PHP, Photoshop, and other creative tools.

## EXPERIENCE

### AT&T SOFTWARE DIVISION

**Software Engineering Intern** · Jun 2018 - Aug 2018

- Responsible for fixing errors in AT&T's iOS mobile application
- Assisted in development and management of several major features, backend interactions, and the user interface

### UC BERKELEY OFFICE OF PLANNING AND ANALYSIS

**Undergraduate Researcher** · Jan 2018 - Aug 2018

- Helped build a web application to analyze data on student majors and classes for over 6000 graduating seniors
- Configured database and stored precomputed clusters by running the T-SNE algorithm on student data, reducing runtime and improving the overall user experience
- Utilized Numpy, Pandas, SKLearn, and D3.js libraries for data cleaning/analysis, dimensionality reduction, and modeling

### DATA SCIENCE FOR INDIA

**Web Development Coordinator** · Aug 2017 - Present

- Involved in design and development of organization website
- Assisted in development of curriculum for teaching over 400 high school students in India the basics of data science

### QUANT FIVE ENGINEERING

**Full-Stack Development Intern** · May 2017 - Aug 2017

- Involved in all stages of development of Safesign, a web application for securely sharing and e-signing documents
- Backend: Involved in development of 2FA, Document Parsing, Database Management, and Biometric Verification
- Frontend: Involved in design and development of Profile Creation, Sign Up / Log In Workflow, Mobile Compatibility, Email Verification, Password Management, and more

### INVENTION CORPS OF BERKELEY

**Finance Chair** · Jan 2017 - Aug 2017

- Helped design and develop hygiene initiative solution web application for over 56,000 schools in Tamil Nadu, India
- Helped develop and maintain organization website
- Created budget and received over \$10,000 in total funding from Stanford School of Design Fellowship and the ASUC

## PROJECTS

### N-GRAM LANGUAGE LEARNER · Python · 2018

- Developed a natural language processing algorithm
- Utilizes statistical inference, and web scraping to generate, a set of (mostly) grammatically correct sentences
- Algorithm takes in the online .txt version of the book "Pride and Prejudice" as training data to learn language rules

### PROJECT: FIREWALL · Python · 2017

- Developed a utility to bypass the Great Firewall of China
- Supports tracing the route of sent packets, as well as sending / receiving packets of inaccessible HTTP requests
- Bypasses censorship ( RST packets ) and allows access to websites that are otherwise censored, such as Google

### SNAPCHAT 2.0 · Swift, Objective-C · 2016

- Built a basic iOS SnapChat emulator from scratch using Swift and Firebase with a few personal twists
- Supports sending, receiving, and uploading snaps using Camera Roll or built-in device camera