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