Anish Saha

iOS Developer | Student @ UC Berkeley

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PROFILE

Graduating senior double majoring in Applied Mathematics and Data Science. Ambitious and versatile mobile developer seeking a full-time industry role in client application development.

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 and Neural Networks
- CS 160 – UI / UX Design and Development
- CS 161 – Computer Security
- CS 188 – Introduction to Artificial Intelligence
- CS 198 – iOS Development
- STAT 131 – Introduction to Probability and Statistics for Data Science
- STAT 133 – Concepts in Computing Data
- STAT 142 – Introduction to Data Analytics and Machine Learning
- MATH 104 – Introduction to Analysis
- MATH 110 – Linear Algebra
- MATH 198 – Introduction to MATLAB

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

Swift, Objective-C, Javascript, C / C++, Python, R, Java, MATLAB, Bash / Shell, HTML, CSS, PHP, GoLang

FRAMEWORKS & TECHNOLOGIES

Git, CoreData, React Native, UIKit, Webkit, Foundation, CoreGraphics, CoreAnimation, Tune SDK (for notifications), Core NFC, CorePlot, CoreLocation, AVFoundation, CommonCrypto, Numpy, Scikit-learn, Pandas, TensorFlow, Google OCR, Google Firebase, Google Cloud Natural Language, GraphQL, MySQL / NoSQL, and more

SOFTWARE TOOLS

Figma, XCode, Android Studio, Sketch, Tableau, Amazon AWS (S3, Sagemaker), Conviva, Jupyter Notebooks, Unity

EXPERIENCE

AT&T INC.

Software Engineering Intern • May 2018 - Aug 2018

- iOS developer for the Open Video Client Development Team
- Developed iOS application that uses the Google Cloud Natural Language API to perform sentiment analysis on scraped text data from Twitter, Reddit, Facebook, and App Store reviews, then used CorePlot / CoreAnimation libraries to display daily and monthly customer sentiment trends on DirecTV NOW
- Created scripts to query, parse, cluster, and analyze terabytes of DirecTV NOW event-level mobile session data; used machine learning algorithms (DBSCAN, Random Forest Regression, and more) to understand customer satisfaction trends and identify features associated with positive / negative user experiences

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
- Implemented mobile compatibility using React Native
- Configured database to store precomputed clusters by running the t-SNE algorithm on student data and reducing runtime / server load for the dimensionality reduction process

QUANT FIVE ENGINEERING

Software Engineering Intern • May 2017 - Aug 2017

- Full-Stack developer for a team developing Safesign, a web application for securely sharing and e-signing documents
- Frontend: Implemented mobile compatibility and developed the UI for login workflow, automatic emails, and other pages
- Backend: Developed of 2FA and Document / JSON Parsing

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
- Implemented a mobile-friendly UI using media queries
- Created budget and received over $10,000 in total funding from Stanford School of Design Fellowship and the ASUC

PROJECTS

SNAPCHAT 2.0 · **Swift, Objective-C** · 2018

- Built a minimalistic iOS SnapChat emulator from scratch
- Supports sending, receiving, and saving snaps by accessing the Photos application as well as the device's built-in camera
- Includes account management & group messaging functionality

PROJECT: FIREWALL · **Python** · 2018

- 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

N-GRAM LANGUAGE LEARNER · **Python** · 2017

- Utilized an ensemble of natural language processing algorithms that leverage web scraping, methods of statistical inference, and syntax trees to generate grammatically correct sentences
- Algorithm takes in text data from online versions of books such as *Pride and Prejudice* as training data to learn language rules