

# PRANSU DASH

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REDACTED

www.pransudash.com

San Francisco Bay Area

## EDUCATION

University of California, Berkeley - B.A. Computer Science

August 2016 - May 2020 (expected)

- Completed Coursework: Data Structures, Algorithms, Operating Systems, Intro. Artificial Intelligence, Internet Architecture, Discrete Math and Probability Theory, Computer Architecture, Intro. Electrical Engineering, Intro. Data Science, Probability Theory
- In Progress: Machine Learning, Computer Security

## WORK EXPERIENCE

UC Berkeley - Research Assistant, Berkeley, CA

January 2018 - September 2018

- Worked on parsing metrics from Facebook profiles curated from a experimental pages with paid advertisements to detect fake activity and to build a social network graph
- Trained a regression and random-forest model to predict if a user is fake

Microsoft - Software Engineering Intern, Greater Seattle Area, WA

May 2018 - August 2018

- Full stack development for Visual Studio Team Services, now called Azure Boards (Typescript, C#, React, Redux)
- Worked in an Agile environment and shipped major user-requested features with web performance improvements

Financial Engines - Software Engineering Intern, Sunnyvale, CA

June 2017 - August 2017

- Automated the conversion of the company-wide Postscript data archival system to use PDF and store in AWS after doing a cost analysis to demonstrate the significant benefits
- Worked with AWS Lambda, S3, Kinesis as well as Java, Angular, Javascript, SQL Server, Bash Scripting

Scry Analytics - Natural Language Processing Research Intern, San Jose, CA

June 2015 - August 2015

- Prototyped a NLP module for real-time lexical analysis of clients' customer service phone conversations using the CMU Sphinx Speech Recognition library

## PROJECTS

Stock Predictor

November 2018

- Python notebook and library to predict future stock prices for instruments traded in any sector on NASDAQ
- Built feature extraction module for single stock time series using Quandl, Pandas, and Technical Analysis libraries. Ran regression models as well as random forest, HMM, and SVM models using Scikit-learn.
- One of the **top projects** in UC Berkeley's Advanced Probability and Random Processes (EECS 126) course

Traffic Control Improvement Research

March 2016

- Built a model that was trained with local traffic metrics, clustered drivers with similar destinations and driving styles together using a k-means algorithm, and redirected each cluster along a unique route for more efficient vehicle traffic management
- Won **IBM Award for Computing** at 2016 Santa Clara Valley Science and Engineering Fair

Sensor Networks for Gun Control

March 2015

- Modified a model gun to be automatically disabled in public areas, specifically schools
- Used Arduino Uno and Spark Core WiFi module to receive signal from a modeled **sensor network** around a school to control the physical lock on a firearm to render it unusable in such a public area. This could also allow for selective control of who can use a purchased firearm.

## SKILLS

Java ●●●●○  
Git ●●●●○  
SQL ●●●○  
Pandas ●●○○○

Python ●●●●○  
iOS Dev ●●●○○  
NumPy ●●●○○  
R + RStudio ●●○○○

C/C++ ●●●○○  
Swift ●●●○○  
Scikit-learn ●●○○○  
AWS Dev ●●○○○