Pransu Dash

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EDUCATION

University of California, Berkeley - B.A. Computer Science   *August 2016 - May 2020 (expected)*

- *Selected Coursework:* **Data Structures**, **Algorithms**, **Operating Systems**, **Intro. Artificial Intelligence, Machine Learning, Computer Security**, Internet Architecture, Discrete Math and Probability Theory, Computer Architecture, Intro. Electrical Engineering, Intro. Data Science, **Privacy Engineering, Databases**

WORK EXPERIENCE

Atlassian - Data Engineering Intern, *San Francisco, CA*   *May 2019 - August 2019*

- Configured a daily Airflow job to ingest Google Ads data required to support performance marketing teams
- Automated and decreased latency of an n-gram analysis of large datasets of domain-specific content while working closely with the data science team (**NumPy, sklearn, Spark ML Lib**)
- Built full stack microservice for external marketers to create UTM urls for tracking customer acquisition

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. Also converted archaic graphing tools to use D3.js.
- Worked with AWS Lambda, S3, Kinesis as well as Java, Angular, Javascript, D3.js, Bash Scripting

PROJECTS

Secure File Share System   **February** *2019*

- Built a secure file sharing system, similar to Dropbox (only command line interface), using GoLang
- Implemented secure authentication, fast file system, file sharing that is impervious to MITM attacks and eaves-droppers

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.
- Named one of the **top projects** in UC Berkeley's Advanced Probability and Random Processes (EECS 126) course

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 sigal 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, Python, C, NumPy, Scikit-learn, Pandas, R, RStudio, Git, JavaScript, TypeScript, React, Flask, Django, Airflow, SQL