YING LUO

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EDUCATION

UC Berkeley *Class of 2017*

B.A. Statistics & Computer Science
GPA 3.45

Relevant Coursework

Statistics:
Machine Learning
Data Science
Linear Modeling
Statistics Theory
Probability Theory

Computer Science:
Algorithms
Database Systems
Data Structures
Artificial Intelligence
Software Engineering
Product Management

SKILLS

Data Analysis: Python, R, SQL, Spark

Data Visualization: D3.js, HTML, CSS, Tableau, Adobe CC, LaTeX

Programming: Git, Bash, Java

EXTRACURRICULAR

Girls Who Code, *Teaching Facilitator*

- Plan weekly lessons, workshops, and field trips to introduce computer science fundamentals to class of 30 high school girls
- Created broad curriculum that spanned across computer science, web development & data science

Hack the Hood, *Workshop Instructor*

- Planned and led an introductory data science workshop for 20 students from low-income & minority backgrounds
- Guided students how to select and create features in the Titanic dataset to predict which passengers survived the sinking

Blueprint: Technology for Nonprofits, *Project Developer*

github.com/calblueprint/forte

- Worked in a team of 5 engineers to build a web app for the nonprofit Forte Academy (HTML/CSS, React.js, Ruby on Rails)
- Refactored and documented code and helped the nonprofit roll out the web app

EXPERIENCE

ZapLabs, *Data Analyst* — JUNE 2017—PRESENT

- Conducted clustering analyses to identify different usage patterns when users are working on on teams vs. individually (Jupyter Notebook, Apache Zeppelin, Amazon S3)
- Built a web app that now serves as the central platform for all dashboards, making data more accessible and digestible across the entire company (D3.js, HTML, CSS, Python, Git)
- Collaborated with PM's to define KPI's, build dashboards, and revamp existing dashboards to better measure product success (Tableau, Google Analytics API, Amazon S3, PySpark, SQL)
- Wrote scripts to automate the entire reporting process so analysts never have to manually generate recurring reports again (Python, SQL, Oracle API, Bash, Excel)

Autodesk, *Data Analyst Intern* — SUMMER 2016

- Defined key metrics and aggregated data to build dashboard for AutoCAD adoption rates to help drive future product decisions
- Presented research and findings to AutoCAD directors, who had never previously seen adoption rates data
- Collaborated with Product, UI/UX, Engineering, and Analytics teams to identify internal data gaps (e.g. interoperability)

ClickTime, *Marketing Analyst Intern* — SUMMER 2014

- Worked with PM & Engineering to research and propose a new product that caters exclusively to nonprofit clients
- Used data and past trends to predict that this new product would increase revenue by $2+ million in 5 years

PROJECTS

Book Recommendator System — FALL 2017

- Implemented item-to-item collaborate filtering to create a recommendation engine for books, based on the user's ratings
- Used natural language processing methods (bag of words, n-gram) and prediction models (random forest) to turn reviews and business attributes into features

Predictions using Brain Waves — FALL 2015

- Generated random forests to predict whether a particular movie scene takes place inside or outside based on a person's brain waves with 90% accuracy
- Selected for key indicators by running and comparing t-test results on thousands of brain voxels
- Designed and implemented a class that reads in and manipulates 20 GB's of fMRI data using NumPy, Matplotlib, and Nibabel