Jack Sullivan

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EDUCATION

UC BERKELEY

Bachelor's in Computer Science and Statistics
Expected May 2018 | Berkeley, CA
Technical Upper Div GPA: 3.86 / 4.00
Overall GPA: 3.75 / 4.00
Dean's List Recipient Sp-Fa 2016

LOS ALTOS HIGH SCHOOL

Grad. June 2014 | Los Altos, CA
AP Scholar with Distinction
National Honors Society
Yearbook Academic Editor

LINKS

Github: jackcsullivan
LinkedIn: jack-sullivan

COURSEWORK

UNDERGRADUATE

In Progress:

- Optimizing Models in Engineering
- Internet Architecture and Protocols
- Stochastic Processes

Completed:

- Introduction to Machine Learning
- Introduction to Artificial Intelligence
- Software Engineering
- Database Systems
- Operating Systems
- Algorithms and Intractable Problems
- Probability Theory
- Statistical Inference
- Discrete Mathematics
- Multivariable Calculus
- Linear Algebra/Differential Equations

SKILLS

PROGRAMMING

Proficient in:

- Python • Java • C
- Go • NumPy • R

Basic knowledge in:

- Rails • Ruby • Javascript
- SQL • HTML • CSS
- RSpec • Cucumber

EXPERIENCE

GOOGLE | Software Engineering Intern

May, 2017 - August, 2017 | Mountain View, CA

- Produced categorizations for infrastructural internal customer groups by utilizing machine learning through the analysis of resource usage data.
- Scalable to any number of customer data features specified through SQL queries, quality assessments for both supervised and unsupervised methods, and histogram and scatter plot visualizations using Google Charts API.
- All code was reviewed, tested, and pushed to production.

ELECTRIC POWER RESEARCH INSTITUTE (EPRI)

Software Engineering Intern
May, 2016 - August, 2016 | Palo Alto, CA

- Contributed to the user experience for plant reliability analysis tool Phoenix Risk Monitor through adding enhanced scheduling features (copy, merge, extract) and adding visualizations of multiple plant models.
- Created a probability calculator for seismic power plant failures by emulating integration using seismic activity data curves.

TESLA MOTORS | Analytics and Systems Intern

May, 2015 - August, 2015 | Fremont, CA

- Created real time HR reports and dashboards in Workday which included filterable headcount statistics for managers.
- Added to all current employees' personal information through utilizing a resume parser and data integration tool.
- Installed validation rules in Workday that caught invalid field values.

LAND COVER ANALYSIS | Undergraduate Data Science Research

September, 2016 - May, 2017 | Berkeley, CA

- Preprocessed data and utilized Support Vector Machines in Google Earth Engine to spatially and temporally classify the West African Sahel landscape.

DOORKNOBS TO PICASSO | Undergraduate EECS Research

February, 2016 - May, 2016 | Berkeley, CA

- Tested whether certain subconscious preferences (such as keys or snowflakes) correlated with other, larger interest fields.
- Designed intuitive experiments in HTML/Javascript on Amazon Mechanical Turk.

PROJECTS

COMMUNITYGROWS | Community Board Portal

August, 2016 - December, 2016

- Constructed a Rails web application board portal for a non profit Oakland community group through a managed Agile development cycle.
- Specifically developed a central users information page and new resource features such as marked as read and enhanced document information views.

TL;DR | Google Chrome Extension

October, 2015

- Developed a chrome extension that simplifies webpage article text into summaries.
- Focused on the parser which determines the sentences to be displayed in the summary output based on calculated ranked values of words in each sentence.
- On Chrome Extension Store (https://goo.gl/M0qxCK): 3,457 current users.