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EDUCATION

University of California, Berkeley

Berkeley, CA

Bachelor of Arts in Data Science: GPA: 3.91 Expected Graduation: Spring 2021

Experience

Computational Approaches to Human Learning Research (CAHLR) Lab

Berkeley, CA

Research Assistant & Full-Stack Web Developer

Apr 2018 - Present

- Collaborated in research and development teams building modern course information tools for the university, monthly traffic to site includes 10% of undergraduate population of 30,000 students.
- Built the system's enhanced course catalog / search feature (askoski.berkeley.edu/search). Trained and optimized machine learning models, created back-end endpoints, designed and implemented the user interface.

Sabre Corporation

Southlake, TX

Software Engineering Intern

May 2019 - Aug 2019

- Engineered new system functionalities on Sabre's developer portal site (beta.developer.sabre.com), used to access published APIs from operational units across the company.
- o Contributed production level code with unit and functional test coverage for the content management system enhancements, communicated with stakeholders for feedback, participated in agile workflow environment.

Stat 89A: Linear Algebra for Data Science

Berkeley, CA

Teaching Assistant

Nov 2017 - Feb 2019

• Worked with instructor and staff members to scale course infrastructure as well as prototype materials for the pilot 4-unit offering of the class. Guided and mentored students during office hours and discussion sections.

AWARDS AND PUBLICATIONS

- Conference Proceedings: Dong, M., Yu, R., Pardos, Z.A. Design and Deployment of a Better University Course Search: Inferring Latent Keywords from Enrollments. In C. Lync and A. Merceron (Eds.) Proceedings of the 12th International Conference on Educational Data Mining (EDM). Montréal, Canada.
- Undergraduate Research Fellow: Received \$6,000 grant to conduct a self-directed research project under the guidance of a faculty mentor. Presented work on learning analytics applications at a university research conference.

Projects

- Spend Friend: Personal finance manager web app with Amazon Alexa skill. Developed RESTful API service for database storing client info and spending history. Won PayPal Sponsor Prize at Cal Hacks 5.0. (Firebase, Flask, Webhooks, HTML & CSS, Heroku, PayPal API)
- Remote Cardboard: Screen mirroring device allowing users to control multiple devices from a Raspberry Pi interface. Client-server communication enabled using WebSockets API. (Raspberry Pi, WebSockets, Javascript, Python)
- SafeFront: A next generation 911 dashboard for both first responders and relief agencies. Built backend service housing image classification and sentiment analysis models that processed incoming mobile data. Top 30 finish at PennApps XVIII out of 200 teams. (React, Flask, Google Maps API, Twilio API)
- T-Hug Life: Interactive 2-D tile based game designed and implemented from scratch. Supports multiplayer mode, random world generation, and multiple goal states. Applied test driven development, object oriented design, and data structure & algorithms knowledge. (Java)
- By the Numbers: Personal case studies based on biometric data collected on my life for the past 5 years. Built models, created visualizations, and performed statistical analyses to answer questions regarding productivity, happiness, sleep, stress, and others. Published blog posts communicating results on personal website. (R)

SKILLS

- Languages (Proficient): Python, Java, R Langauges (Familiar): Javascript, HTML/CSS, PHP
- Web Technologies: Angular 6, Flask, Git, Chrome developer tools, Bash, MySQL, Docker, TravisCI
- Data Science Tools: Python Stack (Pandas, NumPy/SciPy, SciKit-Learn, NLTK, Keras), IATEX
- Relevant Domains: Full-Stack Web Development, Data Science, Machine Learning

Updated: 09/2019