Hannah Chea

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EDUCATION

UC Berkeley - *B.A. in Data Science* **Expected May 2022**
Coursework: Principles & Techniques of Data Science, Computational Structures, Data Structures & Algorithms, Artificial Intelligence, Linear Algebra & Differential Equations, Multivariable Calculus, Probability, Principles of Business

SKILLS

Languages: Python (pandas, NumPy, scikit-learn, matplotlib, seaborn, NLTK), Java, SQL, R
Additional: Git, Github, Jupyter Notebook, Tableau, Figma, MATLAB, Jira, Microsoft Office, Adobe Creative Suite

EXPERIENCE

Undergraduate Laboratory @ Berkeley – *Data Science Research Assistant* **Sept 2019 - Present**
- Developed research question and experiment design to explore how Piazza forum data reflects difficulty and time commitment of a particular UC Berkeley course
- Extracted and cleaned Piazza post data in preparation to perform sentiment and data analysis

UC Berkeley University Dev. & Alumni Relations - *Data Management Team Member* **Sept 2019 – Present**
- Provided data entry, cleanup, and help support on Jira for the Cal Advancement Data System to +600 total users
- Managed confidential data for over one million individuals and organizations for fundraising purposes

DataBears - *Operations & Outreach Team Member* **March 2019 – Aug 2019**
- Organized logistics & records with team to manage and drive newly-founded club toward the goal of increasing data science education accessibility to high school students
- Curated social media content and managed social media accounts to execute marketing strategies

ORGANIZATIONS

Cal Band
Website Developer **Feb 2019 – Dec 2019**
- Contributed to front-end and back-end work on the Cal Band Members database website
- Utilized Git and Django framework as central tools to workflow

Secretary's Committee - Head of Medical Committee **Feb 2019 – Feb 2020**
- Collaborated with team members to provide administrative support & execute internal relations projects to a 240-member marching band
- Responsible for health-related emergencies, procedures, and supplies during practices and performances

Southeast Asian Student Coalition - *Summer Institute Mentor Coordinator* **Aug 2019 – Present**
- Aided in fundraising $10,000 to bring 40 high school students, 20 college mentors, and dozens of workshop facilitators from across the nation to a 5-day program aimed at Vietnam War refugee communities
- Reviewed, trained, and supervised 20 college mentor applicants

PROJECTS

Predicting Taxi Ride Duration (Python, SQL) **Nov 2019**
- Performed data selection, cleaning, EDA, feature engineering, and model selection to predict and optimize the travel time of a New York taxi ride
- Implemented tree regression model to improve accuracy of prediction and 43% lower RMSE than baseline model

Reported Laser Pointing at Aircrafts from 2013 to 2017 (SQL) **March 2019**
- Utilized Tableau and Excel to clean, analyze, and visualize data to explore trends of illegal aircraft laser pointings

CSU Bakersfield Research Program: Automated Medical Image Analysis **July 2017**
- Explored and improve how different classifiers (neural networks, random forest, support vector machines, and adaptive boosting) affected the accuracy of detecting brain tumors in MRI scans using MATLAB