HANNAH CHEA

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EDUCATION

University of California, Berkeley **Expected Dec 2021**

B.A. in Data Science - *Emphasis in Business Analytics, Minor in Asian American Studies, Certificates in Entrepreneurship & Design*
- **Coursework:** Principles & Techniques of Data Science, Data Structures, Algorithms, Artificial Intelligence, Statistics, Probability, Linear Algebra, Multivariable Calculus, Human Contexts and Ethics of Data, Marketing

SKILLS

Languages: Python (Pandas, NumPy, scikit-learn, matplotlib, seaborn, NLTK), Java, SQL, JavaScript, HTML, CSS, React
Additional: Git, Amazon Web Services, Jupyter Notebook, Tableau, Figma, Adobe Illustrator, Adobe XD

PROJECTS

Ansari Mathematics (Python) **June - August 2020**
- Utilized AWS DynamoDB, API Gateway, and Lambda to develop database and backend API for database updates, authorization, booking system, and messaging system for early-stage tutoring system web application

Predicting Taxi Ride Duration (Python, SQL) **Nov 2019**
- Executed data science life cycle on 98,000-point dataset: data selection & cleaning, EDA, feature engineering, model selection
- Generated and fit linear regression model to predict travel time of a taxi ride in Manhattan
- Increase accuracy of prediction by implementing a tree regression model & decreased root mean square error by 43%

Presidential Twitter Data (Python) **Oct 2019**
- Used Twitter API to examine distributions & perform exploratory data analysis on 10,000 of President Trumps' Tweets
- Evaluated the sentiment of the tweets using Vader Lexicon and analyzed polarity of tweets

EXPERIENCE

Cloud at Cal – *External Vice President* **April 2020 – Present**
- Co-found new student organization to teach 10-week long introductory cloud curriculum to ~30 students & provide AWS consulting services for 3 companies interested in cloud computing
- Led project acquisition and client correspondence while overseeing team of 3 product managers and 15 developers

Undergraduate Laboratory at Berkeley – *Data Science Research Assistant* **Sept 2019 – May 2020**
- Assisted in developing research question & experiment design to explore how Piazza forum data reflects difficulty and time commitment of a particular UC Berkeley course
- Extracted and cleaned ~3,000 Piazza post data in preparation to perform sentiment and data analysis

UC Berkeley University Development & Alumni Relations - *Data Management Work Study Student* **Sept 2019 – Present**
- Provide data entry, cleanup, and help support to +600 users on Jira for the Cal Advancement Data System
- Manage confidential data for over one million individuals and organizations for university fundraising purposes

LEADERSHIP

Cal Band

Drill Writing Committee Coordinator **Feb 2020 – Present**
- Collaborate with 6 committee members to develop & design 10 halftime shows to entertain ~40,000 football game attendees
- Work under Drum Major to coordinate Fall Training Program & Teaching Assistant Orientation Program to oversee, motivate, and educate ~200 bandsmen and ~40 teaching assistants

Computer Committee Member **Feb 2019 – Preset**
- Contribute to frontend & backend work on the Cal Band Members database website and music packet web application
- Utilize GitHub, React, and Django framework as central tools of workflow

Southeast Asian Student Coalition - *Summer Institute Director* **Aug 2019 – Present**
- Manage team of 10 coordinators to organize 5-day mentorship program about Vietnam War refugee identity for 40 high school students and 20 college students across the US
- Facilitate club discussions & events to provide a supportive space for dialogue among Southeast Asian community