

# HANNAH CHEA

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## EDUCATION

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UC Berkeley - *B.A. in Data Science, Emphasis in Business & Industrial Analytics* **Expected Dec 2021**

- *Minor in Asian American Studies, Certificate in Entrepreneurship & Technology, Certificate in Design Innovation*

**Coursework:** Principles & Techniques of Data Science, Data Structures & Algorithms, Artificial Intelligence, Human Contexts and Ethics of Data, Statistics, Probability, Linear Algebra, Multivariable Calculus

## SKILLS

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**Languages:** Python (Pandas, NumPy, scikit-learn, matplotlib, seaborn, NLTK), Java, SQL, JavaScript, HTML, CSS

**Additional:** GitHub, Jupyter Notebook, Tableau, Figma, Jira, Microsoft Office, Adobe Creative Suite (Photoshop, Illustrator, XD)

## PROJECTS

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**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

**Reported Laser Pointings at Aircrafts** (Tableau, Excel) **Jan 2019**

- Utilized Tableau and Excel to clean and manipulate 44,000-point data set to explore trends of illegal aircraft laser pointings
- Designed an interactive data visualization on Tableau to effectively organize and present findings with a partner

## EXPERIENCE

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**Cloud at Cal – External Vice President** **April 2020 – Present**

- Co-found new student organization with 5 students to provide educational opportunities to ~30 students & consulting services for 3 companies interested in cloud computing
- Led acquisition of consulting projects while developing and maintaining good client relationships

**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

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**Cal Band**

**Drill Writing Committee Coordinator** **Feb 2020 – Present**

- Collaborate with 5 team members to develop & design 8 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 bandmen and ~40 teaching assistants about proper marching form

**Computer Committee Member** **Feb 2019 – Present**

- Contribute to front-end & back-end work on the Cal Band Members database website and music packet web application
- Utilize GitHub, React.js, and Django framework as central tools of workflow

**Southeast Asian Student Coalition - Summer Institute Director** **Aug 2019 – Present**

- Manage team of 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