

Hannah Chea

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EDUCATION

University of California, Berkeley

Aug 2018 - Dec 2021

B.A. Data Science - Emphasis in Business Analytics, Minor in Asian American Studies, Certificates in Entrepreneurship & Design

Coursework: Principles & Techniques of Data Science, Artificial Intelligence, Machine Learning, Data Structures, Algorithms, Statistics, Probability, Human Contexts and Ethics of Data, Business Analytics, Marketing, Design Thinking

SKILLS

Languages: Python (Pandas, NumPy, scikit-learn, matplotlib, seaborn, NLTK), SQL, Java, React

Additional: Amazon Web Services (AWS) Certified Cloud Practitioner, Microsoft Excel (VBA), Jupyter Notebook, Tableau, Git, Figma

EXPERIENCE

UC Berkeley Asian American Studies Program – Research Assistant & Program Intern

Feb 2021 – May 2022

- Conducted outreach & data collection on +100 elders & students to explore pandemic effects on Southeast Asian community
- Organized monthly meetings to collaborate with campus officials & other student orgs in support for Southeast Asian students
- Delegated tasks between 3-person intern team to execute social media fundraiser campaigns, monthly events, and weekly newsletter communications to promote Asian American Studies, tripling user engagement across all platforms

Madison Square Garden – Counter Logic Gaming Data Analyst Intern

Oct 2020 – Aug 2021

- Created Python data pipeline to convert, clean, & store +12 GB of JSON files for +250 League of Legends games into a table
- Automated game statistics & analysis from multiple sources for coaching staff with Riot API & Google Scripts, saving team analyst +20 hours of manual labor a week
- Collected Twitter engagement statistics via API & presented trends via Tableau visualization to make marketing decisions
- Pinpointed social issues and guided discussions to improve internal diversity & inclusion efforts with D&I committee

EXTRACURRICULAR

UC Berkeley Marching Band - Community Outreach & Public Relations Coordinator

Feb 2020 – Feb 2022

- Promoted online & in-person fundraising events with 6 other students, generating +\$12,000 in donations (an 80% increase)
- Curated content for official social media accounts, generating over 20.5K followers & 639.4K likes on new TikTok alone

Cloud at Cal – Co-Founder & Vice President of Education

April 2020 – May 2021

- Founded the only campus organization related to cloud computing during the pandemic, taught 10-week long introductory cloud curriculum to +20 students, and executed two 8-week long AWS consulting projects for 2 startup companies
- Led project acquisition and client partner correspondence while overseeing team of 3 product managers and 10 developers

PROJECTS

Climate Change and Valley Fever (Python)

April – May 2021

- Conducted statistical data research experiment to explore how different environmental aspects of climate change affect number of valley fever cases in the southwestern US using a 2-stage least squares regression model
- Compared a Generalized Linear Model and Random Forest model to predict number of cases based on 4 environmental factors

Ansari Mathematics (Python, AWS, JSON)

June - Aug 2020

- Designed & developed database infrastructure & backend API for database updates, secure authorization, booking & messaging system for early-stage tutoring web application startup using AWS DynamoDB, API Gateway, Lambda, & SNS microservices

Predicting Taxi Ride Duration (Python, SQL)

Nov 2019

- Executed data cleaning, EDA, feature engineering, & linear regression model on +140 MD dataset to predict travel time of a taxi
- Improved accuracy of prediction by implementing a tree regression model, decreasing 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 Trump's Tweets
- Evaluated the sentiment and analyzed polarity of tweets using VADER lexicon analysis tool to provide insight into behavior