

Max Kim

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Education

University of California, Berkeley

Expected Graduation: May 2023

Double Major: B.A. Data Science, Operations Research and Management Science (Algorithmic Decision Making)

GPA: 3.98/4.0

Current Coursework: Machine Structures, Efficient Algorithms and Intractable Problems, Introduction to Cloud Computing

Past Coursework: Data Structures, Computational Structures in Data Science, Principles & Techniques of Data Science, Data & Decisions, Probability & Mathematical Statistics in Data Science, Probability & Risk Analysis for Engineers, Linear Algebra & Differential Equations

Projects

Mini Git | (Link: Upon Request)

- Created a version-control system from scratch in **Java** capable of mimicking features of Git such as saving contents of entire directories of files using file persistence and restoring versions of one or more files for a more organized workflow.
- Designed more features such as viewing the history of backups, maintaining sequences of saved contents, and merging changes made in one sequence into another; tested with unit tests using **JUnit** and integration tests

ML State Political Party Predictor | (Link: https://github.com/maaxkimm/political_party_predictor/)

- Created a machine learning autoregressive logistic model from scratch in **Python** by training with COVID-19 time-series datasets to predict the political ties of any given state based on voting patterns of the 2020 election with ~70% accuracy.
- Incorporated daily vaccination rates, death rates, total testing rates, and cases per capita after normalization as features for the model and optimized the model bias and variance with cross-validation, feature engineering, and extensive EDA using **Scikit-learn**, **Plotly**, **Seaborn**, etc.

E@B Mentorship Platform | (Demo Link: <https://entrepreneurs.berkeley.edu/mentorship/login/>)

- Implemented simple mentorship platform with a team of four to facilitate connecting students with mentors throughout the semester for *Entrepreneurs@Berkeley* organization in **HTML/CSS** and **Python** using **Django**.
- Designed functionalities such as making feedback requests to mentors, creating or joining a startup, viewing and interacting with other users and startups, and logging your feedback requests and customized profile.

CodeChat | (Link: <https://github.com/maaxkimm/codechat>)

- Created a real-time messaging platform and game inspired by the popular quarantine game, Story Time, using the **MERN** stack & **React**
- Designed features such as signup and login authentication using **JWT** and **bcrypt**, group chat messaging and searching user functions utilizing **RESTful APIs**, real-time and bi-directional communication with **Socket.IO** and implemented web design/layout using **Chakra UI**

Teaching & Work Experience

UC Berkeley Electrical Engineering & Computer Sciences

Berkeley, CA

Academic Intern for CS 61B (Data Structures & Algorithms)

January 2022 - Present

- Facilitate labs & office hours by helping students with assignments in **Java** & teaching conceptual understanding of class with ~1600 students

Empowerly

San Francisco, CA

Data & Technical Marketing Intern

February 2020 - September 2020

- Collaborated with UI & UX developers & CTO for student portal design; specifically, I found and extracted relevant data points for the student portal database: 100+ universities, scholarships, and summer programs in **Javascript**
- Created data management system to maintain **550+ students** and their data in **Hubspot**; categorized/organized 650+ blog posts with **Airtable**
- Managed marketing channels and produced content by generating statistical graphics and comprehensive reports in **Python** using **Matplotlib** by analyzing student engagement data in relation to sales funnels and presenting findings to the Marketing Team

Extracurriculars & Leadership

Future Business Leaders of America | Phi Beta Lambda

Berkeley, CA

Technical Project Manager, Client Team & Consulting Analyst

January 2020 - Present

- Headed contract consultant team to identify key ways to connect with Gen Z for Reebok's Classic Leather line by conducting a national survey with **100+ responses** and performing EDA in **Python** using **Matplotlib** to better understand consumer behavior and assess Gen Z's perceptions of Reebok's brand image; presented findings and marketing strategies to **Reebok's** U.S. Marketing Team

Entrepreneurs@Berkeley

Berkeley, CA

Vice President of Operations, Head Project Instructor & Advisor

September 2019 - September 2021

- Designed and executed reconstruction of entire program increasing end-of-semester membership/engagement by **20+ students**, co-hosted **10+ events** featuring entrepreneurs across industries with over **350+ participants**, planned and managed all internal and external events
- Coordinated and led weekly meetings with 2 project teams and designed entrepreneurship curriculum in preparation for Final Demo Day

Skills, Technologies, and Awards

- **Languages:** Java, Python, SQL, HTML/CSS, JavaScript

- **Technologies:** Linux, React, Node, Express, Django, MongoDB, PostgreSQL, AWS, Postman, JWT, REST APIs, Git, GitHub, JUnit, Pandas

- **Societies & Awards:** Computer Science Undergraduate Association @ Berkeley, Baidu x Voyager Consulting Case Competition 2nd place