

# Rex Liu

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## EDUCATION

### University of California, Berkeley • Computer Science

Aug 2020 – May 2024

- **Performance:** GPA 3.764/4.000
- **Coursework:** Data Structures, Structure & Interpretation of Computer Programs, Foundations of Data Science
- **Involvements/Clubs:** Web Development at Berkeley, Student Association for Applied Statistics, Data Science Society

## TECHNICAL SKILLS

**Languages:** Python 3, JavaScript ES6, Java, HTML 5, CSS, SQL

**Frontend/Backend:** React, Sass, Bootstrap, Node.js, Redux, Express.js, Firebase, MongoDB, MySQL, GraphQL

**Data Science Tools:** TensorFlow, NumPy, Pandas, scikit-learn, Matplotlib, Beautiful Soup, Jupyter Notebook

## PROFESSIONAL EXPERIENCE

### SAP

Starting Jun 2021

Incoming Software Engineer Intern

### Berkeley SkyDeck

Jan 2021 – Apr 2021

Software Developer Intern

- Reduced spam registration for company portal with 2000+ members by improving secure **reCAPTCHA V2** system
- Managed startup registration pages with 4000+ views per month to secure 30 startups in new cohort

### HKP Solutions

Jun 2020 – Apr 2021

Software Developer Tech Lead

- Lead 10 developers in creating hotel management **Android** mobile and **React** web applications with 400+ users/month
- Developed 80 screens in **Java** and **JavaScript**, integrated 230 pull requests, and handled 75 issues/enhancements
- Run effective scrum meetings with 30 interns to update tasks, and work with CEO to define project scope and roadmap

### Investocracy

Jun 2020 – Oct 2020

Full Stack Software Developer Intern

- Developed 3 responsive **React** websites with 75 reusable components and 15 pages to connect startups and investors
- Implemented secure user authentication with **Node.js**, **Redux**, **MongoDB**, and **Firebase Authentication**
- Designed and built script to generate and deploy 10K+ SEO-friendly startup webpages with **Gatsby**
- Improved Lighthouse score of websites to 90 by implementing **sitemaps**, allowing Google to effectively crawl sites

## EXTRACURRICULAR ACTIVITIES

### Web Development at Berkeley

Jan 2021 – May 2021

Software Developer

- Developed PDF management system for U-Do-It-Legal startup with **PDFTron** and **XSDF** to store multi-field PDFs
- Designed and created **Express.js** backend server with **Firebase Authentication** and **MongoDB** implementations

### Data Science Society at Berkeley

Sept 2020 – Nov 2020

Data Scientist

- Developed accurate stock prediction models with **TensorFlow** ML based on **Yahoo Finance API** data
- Implemented Long Short-Term Memory (LSTM) Networks and 5 LSTM layers for increased accuracy
- Visualized models with **Matplotlib**, read dataset with **Pandas**, and scaled and manipulated data with **scikit-learn**

## PROJECTS

### Vaccelerator

January 2021

Won 2<sup>nd</sup> Place / 500 Participants at HackUCI 2021

- Developed real-time vaccine distributions and COVID-19 data dashboard with **React**, **Chart.js**, **Sass**, and **Material-UI**
- Implemented **Twilio** SMS for live updates, **Firebase Authentication** for secure user auth, and **Firestore** for data management

### Stock Trading Bot

May 2020 – Jun 2020

- Designed AI Python software to predict the stock movement based on trends; creates buy/sell orders accordingly
- Implemented Alpaca Trading API to import data and create buy/sell orders while deployed on Google Cloud