Rex Liu

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EDUCATION

University of California, Berkeley • Computer Science • Berkeley, CA, United States   **Aug 2020 – May 2024**
- **Performance:** GPA 3.78/4.00
- **Coursework:** Structure & Interpretation of Computer Programs (A+)
- **Involvements/Clubs:** Web Development at Berkeley, Student Association for Applied Statistics, Data Science Society

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, SQL, Scheme
Frontend/Backend: React.js, Sass, Bootstrap, Node.js, Redux, Express, Firebase, MongoDB, MySQL, GraphQL
Data Science Tools: TensorFlow, NumPy, Pandas, Keras, scikit-learn, Matplotlib, Beautiful Soup, Jupyter Notebook

PROFESSIONAL EXPERIENCE

HKP Solutions   Jun 2020 – Present
Software Developer Tech Lead   Durham, NC, United States (remote)
- 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   Tokyo, Japan (remote)
- 1 of 3 developers creating 3 websites at startup connecting investors and startups across Asia and Africa
- Developed dynamic and responsive **React** frontend with 75 reusable components and 15 pages in **JavaScript**
- 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

RISE   Jun 2020 – Sept 2020
Software Engineering Manager   Vancouver, BC, Canada (remote)
- Led team of 5 developers in creating job tracking and finding platform and community
- Created dynamic **React** frontend and implemented secure **Firebase Authentication** and **MySQL Database**
- Allocated work, provided guidance, and resolved issues to meet performance objectives

EXTRACURRICULAR ACTIVITIES

Data Science Society at Berkeley   Sept 2020 – Nov 2020
Data Scientist   Berkeley, CA, United States (remote)
- 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**

Berkeley Engineering Student Council   Jun 2020 – Dec 2020
External Vice-President Officer   Berkeley, CA, United States (remote)
- Automated emails, forms, and tables for club affiliation processes, an initiative encouraging inclusion in Engineering clubs
- Find sponsors and form corporate connections with internal and external organizations for community-oriented events

PROJECTS

Vaccelerator   January 2021
Won 1st 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 Auth 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**