DEREK JOU

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EDUCATION

Horizons School of Technology — *New York, NY* Jun 2019 — Aug 2019
Fellowship, Full Stack Web Development

University of Southern California — *Los Angeles, CA* Aug 2014 — Dec 2017
Bachelor of Science, Computational Neuroscience

SKILLS & TECHNOLOGIES

Frontend:

- React.js, Redux, React Native, Bootstrap, jQuery, Webpack, JavaScript, HTML/CSS

Backend:

- NodeJS, Python, MySQL, GraphQL, Postgres, Express.js, MongoDB, Redis

EXPERIENCE

Full Stack Fellow Nov 2019 — Dec 2019
Hatchways.io

- Developed **mentionscrawler**, a web application that allows companies to track mentions of their company on a variety of platforms.
    - Built the frontend using ReactJS, MaterialUI, and Socket.io for a reactive interface in communication with a backend task queue.
    - Built out a NodeJS/Express API with a MongoDB database and Redis task queue to send scheduled emails using Twilio SendGrid.

Full Stack Fellow Jun 2019 — Aug 2019
Horizons School of Technology

- Created **Trackr**, a Chrome extension that tracks a user's live website usage and displays usage charts and graphs upon opening new tabs.
    - Built a responsive frontend interface with ReactJS and leveraged Charts.js for data visualization
    - Utilized Google Chrome's Tab API to track users usage time
    - Deployed a NodeJS/Express server for updating statistics and data queries from MongoDB onto Heroku.
- Built **Cooldox**, a desktop-based collaborative rich text editor similar to Microsoft Word
    - Used React and Socket.io to build an interface that allows multiple users to access and manipulate a document responsively and simultaneously.
    - Created a NodeJS/Express server to store documents and persist users on the frontend.
    - Leveraged Draft.js to allow for text editing tools similar to those in Microsoft Word and Google Docs.

RESEARCH

Undergraduate Researcher — *Computational Social Science Laboratory* May 2017 — Dec 2017
University of Southern California

- Analyzed document-based vectors in non-English languages to examine brain activity in people across different cultures in response to hearing passages translated into their native language.
- Trained supervised and unsupervised neural network models, including recurrent, long/short term memory, and deep convolutional models, to perform natural language processing classification tasks.
- Utilized word vectors generated using *word2vec* with the skip-gram and continuous-bag-of-words architectures to produce sentence and document level sentiment vectors.