KEJO HSIEH

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EDUCATION

Oregon State University   Intended Graduation: June 2019
M.S., Computer Science   Cumulative GPA: 3.90
Relevant Courses: **Machine Learning** / **Software Engineering** / Algorithms

TA Experiences:
- CS340 Databases: Lead a class of 200 students to build websites collaborating SQL Database.
- CS361 Software Engineering: Lead a class of 160 students to develop a Java-based web game.
- CS562 Software Project Management: Lead a class of 30 grad students to build innovative software.

National Taiwan Univ. of Tech. and Science   Graduation Date: June 2013
B.S. Commercial Design   Cumulative GPA: 3.61

TECHNICAL SKILLS

Python / JavaScript / C / C++ / Swift / SQL
Node.js / React / MongoDB / React Native / iOS / Git / Arduino

WORK EXPERIENCE

App Developer   Sep 2016 – Jan 2017
National Chiayi University Big Data Laboratory, Chiayi, Taiwan
Demo Video: https://youtu.be/Bv3zLM6icWc
- Built **Waterlog**: An motivational app that records user's water intake with a special self-measuring cup, checks if the user is hydrated, and sends notifications to remind the user to drink enough water to meet the daily goal.
- Implemented with **iOS** app and **Arduino** hardware sensor. Used **Firebase** to allow dynamic data storage.
- Reduced 95% of input time and improved accuracy of measurements by 40% compared to other apps.

Product Designer   June 2013 – Aug 2015
Test Rite International Cooperation, Shanghai, China
- Managed business with $6 million annual revenue, including marketing, budgeting, and strategy development.

PERSONAL PROJECTS

Resumaker – Responsive Web App   June 2018 – Current
https://resumaker-alpha.herokuapp.com/
- Resumaker helps engineers to save time when applying for different jobs. The user only needs to input a comprehensive resume, then every time a job description URL is given, Resumaker scrapes the job's web page, detects required skills, and generates a resume that makes the best fit.
- Improves 80% of job applying efficiency comparing to manual applications.
- Built backend server with **Node.js**. Implemented database with **MongoDB** and **Mongoose**. Authenticates users with **JSON Web Token**. Enables **CORS**. Encrypts and validates user passwords with **bcrypt**.
- Built frontend with **React.js** framework. Implemented routing with **react-router-dom**, managed states with **Redux**. Used **Axios** to make HTTP request. Deployed with **Heroku** and **Git**.
- Achieved 90% unit test coverage using **Supertest**.

Not Dying is Fun – Progressive Web App   Sep 2017 – Current
https://ndf-react.firebaseapp.com/ (Under Construction)
- Not Dying is Fun guides users to shop for required supplies to make preparations in case natural disasters happen. The gamified experience encourages people to make preparations and share their results.
- The app makes a list of materials and asks the user to search and show it to the app, when a certain item has been found, the app marks the quest to being completed.
- Web app implemented with **Node.js**, **React.js**. Applied styling with **Ant Design**.
- Used **Tensorflow.js** and **ML5** to apply machine learning functionalities. Used trained model from **Mobile Net**.