KEJO HSIEH

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EDUCATION

Oregon State University   Intended Graduation: June 2019

M.S., Computer Science   Cumulative GPA: 3.9

Relevant Courses: **Data Structures** / **Software Engineering** / **Algorithms**

TA Experiences: CS340 Databases / CS361 Software Engineering / CS562 Software Project Management

National Taiwan Univ. of Tech. and Science   Graduation Date: June 2013

B.S. Commercial Design   Cumulative GPA: 3.6

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, SQL

Frameworks: Spring, Node.js, React, Angular, Git, MongoDB

Others: AWS (Amazon Web Service), Agile methodology

INTERNSHIP

Full-stack 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.

PERSONAL PROJECTS

Resumaker – Web-Scraping Resume Generator – Full-stack Developer   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**. Created **RESTful API**.
- Built frontend with **React.js** framework. Implemented routing with **react-router-dom**, managed states with **Redux**. Used **Axios** and **AJAX** to make HTTP request. Deployed with **Heroku** and **Git**.
- Achieved 90% unit test coverage using **Supertest**.

Course Register Web App - Full-stack Developer   March 2019 – April 2019

- Implemented a course registration system for students and teachers.
- Implemented frontend with **Angular 6.0**, server with **Spring**, and database with **MySQL**. Managed database with **Hibernate**, deployed on **AWS**.
- Built **RESTful API** to communicate between frontend and backend.

NDF - Dynamic Shopping List with Machine Learning – Full-stack Developer   Sep 2017 – Current

- 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. Implemented with **Node.js**, **React.js**.
- Used **Tensorflow.js** and **ML5** to apply machine learning functionalities. Used trained model from **Mobile Net**.