Hannah Zhang

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Programming/DB	• Pytnon 3	• ES6	• (1 0018/Platforms/Otner	
	 MySQL 	 HTML5/CSS3 	 Java 	• D3.js	JIRA
Frameworks/	 ReactJS 	 Redux/ Redux Saga 	 Express.js 	 Git/Bitbucket 	 Azure
Libraries/APIs	 Material-III 	• REST	 ManReduce 	• UX	Yarn

PROJECTS

React JS Web-Application Development

01/2018 - 05/2015

- Tech Stack: ES6, Redux, Redux Saga, React Router, Material-UI, Jest, Enzyme, underscore.js
- Worked as a Frontend developer on a brand-new supply chain web application.
- Adopted container/component architecture and strived to
 Collaborated with UI/UX team to translate high create reusable and generic components.
- Contributed as a full team member of the Product Development organization in Agile SDLC methodology.
- fidelity wireframes, build features, and delivered functionality on time and within scope.
- Worked with developers to use REST-based API.

Web API for Management Application (Express.js, SQLite, node-sqlite3)

- Created full CRUD API using Express.js and SQLite for an internal management tool of a coffee shop.
- Implemented API's routing functionality using Express.js.
- Used node-sqlite3 to perform create, read, update and delete operations on an SQLite database within JavaScript.

Wireless Sensor Network Model (JavaScript, ¡Query, HTML/CSS, check this out on zzz-icy.github.io!)

- Visualized the process as an interactive web application using JavaScript, jQuery and HTML5 Canvas.
- Displayed statistic information using the CanvasJS API.
- Modeled WSN using Random Geometric Graph to simulate the selecting of communication backbones in WSN in linear time through applying Smallest-Last Coloring algorithm and data structures.

Story Books (JavaScript, AngularJS, MongoDB)

- A social network for creating public and private stories.
- Developed the client side using the template engine, handlebars.js. Implemented Passport strategy for authenticating with Google using the OAuth 2.0 API.
- Created users and stories models with Mongoose
- Implemented a dashboard UI for users to manage their stories using the CSS framework, Materialize.

Movie Recommendation System (Python, MRJob, Amazon EMR)

- Performed Item-based Collaborative Filtering on MovieLens dataset using MRJob in Python as the interface for Hadoop to handle with MapReduce tasks.
- Analyzed 1 million movie ratings across 16 machines on Amazon Elastic MapReduce to find similarities among movies for the recommendation.

Wine Quality Prediction - Machine Leaning (Python, Scikit-Learn, Pandas)

- Provided guidance to vinevards on quality and price expected on products without reliance on volatile factors.
- Created wide and deep NN to identify wine quality, tuned hyper-parameters and evaluated generalization performance through cross-validation.
- Performed exploratory analysis, data cleaning and preprocessing using Pandas, Scikit-learn and Seaborn.

Interactive Product Design - Streams (UI/UX, Proto.io)

- Collaboratively developed UI/UX to create an integrated platform providing users greater control over multiple social media feeds.
- · Adopted guidelines to gather requirements, write user stories, created user journey, hand-drawn wireframes and converted into a hi-fi prototype on Proto.io.

WORK EXPERIENCE

Product Development Intern Electronics Assembly Technologist ASIC Testing Intern	JDA Software, Irving, TX Shanghai Aerospace Equipment Manufacturer Institute of Acoustics, Chinese Academy of Science	01/2018 - 05/2018 07/2014 - 07/2015 s 03/2013 - 12/2013
EDUCATION		
Southern Methodist University	M.S. in Computer Science	09/2016 - 05/2018
Soochow University	M.S. in Electrical Engineering	09/2011 - 07/2014
Xi'an University of Posts and Telecoms	B.S. in Electrical Engineering	09/2007 - 07/2011
PUBLICATION	PATENTS	CERTIFICATION

MEMS Analog Feedback Acceleration A Serial Bus Communication Bridge, Patent Google Analytics IQ Sensor and its Testing, Technical Acoustic Number: 201420121985.9 BEC, Vantage