Hannah Zhang

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469-450-6859	han.:	zhang1129@gmail.c	om			zzz-icy.github.io		Dallas, TX 75206
SKILLSET								
Programming/DB	Python 3MySQL	ES6 JavaScriptMongoDB	JavaRuby			C HTML5/CSS3	Tools/Platf • SPA	orms/Cloud/Other • Hadoop
Frameworks/	• Angular 2	• jQuery	• Boots	_		Express	• Git	• Amazon EMR
Libraries/APIs	• Node	• REST API	• Mapl	Reduce	•	Splunk	• Linux	• Microservice
PROJECTS								
 Wireless Sensor Network Model (JavaScript, jQuery, HTML/CSS, try on zzz-icy.github.io!) 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. Visualized the process as an interactive web application using JavaScript, jQuery and HTML5 Canvas. Displayed statistic information using the CanvasJS API. 								
 Vidjot (JavaScript, AngularJS, Node, Express, MongoDB) Jotting down the idea of your next YouTube video. Developed the client side using the template engine, handlebars.js. Implemented local authentication with Passport. Created users and ideas models with Mongoose OE Implemented a dashboard UI for users to manage the ideas using Bootstrap nav-bar. Prepared and deploy the app to production with Heroku. 						ers to manage their		
Movie Recommend			mazon l					
 Performed Item-based Collaborative Filtering on MovieLens dataset using MRJob in Python as the interface for Hadoop to handle with MapReduce tasks. 				on	 Analyzed 1 million movie ratings across 16 machines on Amazon Elastic MapReduce to find similarities among movies for the recommendation. 			
Wine Quality Pred	iction - Machi	ne Leaning (Pythor	, Scikit-	Learn,	Pa	ndas, TensorFlo	w)	
 Provided guidance to vineyards on quality and price expected on products without reliance on volatile factors. Performed exploratory analysis, data cleaning and preprocessing using Pandas, Scikit-learn and Seaborn. 				 Created wide and deep NN to identify wine quality, tuned hyperparameters and evaluated generalization performance through cross-validation using Scikit-learn and TensorFlow. 				
Product Inventory Manager (JavaScript, AngularJS, NodeJS, MongoDB, REST)								
in inventory by	breaking real-	sers can manage pro world problems dow ng in MVC pattern.		pr	odı	emented using An act edit, NodeJS to and MongoDB for	o create data	provider / REST
Interactive Produc	t Design - Stre	ams (UI/UX, Proto	.io)					
 Collaboratively developed UI/UX to create an integrated platform providing users greater control over multiple social media feeds. 			sto	 Adopted guidelines to gather requirements, write user stories, created user journey, hand-drawn wireframes and converted into a hi-fi prototype on Proto.io. 				
EDUCATION								
Southern Methodist University (GPA: 3.73/4) Soochow University Xi'an University of Posts and Telecoms			M.	.S.	in Computer Scie in Electrical Engi in Electrical Engir	neering	09/2016 - 05/2018 09/2011 - 07/2014 09/2007 - 07/2011	

WORK EXPERIENCE

Electronics Assembly Technologist	Shanghai Aerospace Equipment Manufacturer	07/2014 - 07/2015
ASIC Testing Intern	Institute of Acoustics, Chinese Academy of Sciences	03/2013 - 12/2013

 Participated in MEMS Accelerometer Servo ASIC and development and designed the testing system, based on FPGA and NIOS II soft core using Verilog and C. • Successfully assisted in providing data proof for design improvement of the Servo ASIC through performance analysis of accelerometer in structural health monitoring.

PUBLICATION	PATENTS	CERTIFICATION
MEMS Analog Feedback Acceleration	A Serial Bus Communication Bridge,	Google Analytics IQ
Sensor and its Testing, Technical Acoustic	Patent Number: 201420121985.9	Business English Certificate, Vantage