469 - 450 - 6859 han.zhang1129@gmail.com zzz-icy.github.io Dallas, TX 75206

Southern Methodist U	niversity (GPA-3.73/4)	M.S. in Computer Science M.S. in Electrical Engineering		09/2016 - 05/2018 09/2011 - 07/2014
Soochow University	• •			
Xi'an University of Posts and Telecoms		B.S. in Electrical Engineering		09/2007 - 07/2011
SKILL				
Languages:	• JavaScript • Python	• Java • HTML/CSS	• PHP	• SQL(MySQL)
Frameworks/Tools:	• AngularJS • ¡Query	• Bootstrap • Slim(PHP)	 Jupyter 	• Git

• NIOS IDE / Ouartus II

PROJECTS

Previous experience:

Wireless Sensor Network Model and Visualization

• C

- Modeled Wireless Sensor Networks using Random Geometric Graph in order to simulate the selecting of communication backbones in WSN.
- Visualized the process as an interactive web application based on JavaScript, jQuery and HTML5 Canvas.

• Altium Designer 10

- Displayed statistic information using CanvasJS API.
- Applied Smallest-Last Coloring algorithm to solve the core problem of selecting in linear time.

Verilog

Web Application - Product Inventory Manager

- Developed a product inventory where users can add, update, delete, activate and deactivate products from inventory.
- Implemented using AngularJS, Bootstrap UI for product edit, PHP Slim to create data provider / RESTful API and MySQL for the database.
- Gained experience on breaking real-world problems down into small, manageable steps, and develop in MVC pattern.

Web Application - Suggestion Box

- Aims to implement a web application where users can vote, write and comment on suggestions to help managers gather opinions on specific problems.
- Developed using Bootstrap and AngularJS.
- Debugged and tested using Chrome DevTools and httpserver node package for NPM.

Wine Quality Prediction - Machine Leaning

- Aims to provide guidance to vineyards regarding quality and price expected on their produce without heavy reliance on volatility of wine tasters.
- Performed feature dimension reduction and feature manipulation to analyze top factors that influence wine quality.
- Created a combined wide and deep network using TensorFlow to identify wine of good quality, and evaluated generalization performance.
- Implement in Jupyter notebook using TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib and Seaborn.

Interactive Product Design - Streams

 Aims to create an integrated platform providing users greater control over multiple social media feeds on mobile device. • Collaboratively developed UI/UX adopting rapid contextual method, created user journey and turned UX mockups to hi-fi prototype on Proto.io.

WORK EXPERIENCE

Electronics Assembly Technologist Shanghai Aerospace Equipment Manufacturer 07/2014 - 07/2015

Created technical documents of electronic assembly and Supervised and coordinated the whole production process

Hardware Testing Intern Institute of Acoustics, Chinese Academy of Sciences 03/2013 – 12/2013

- Participated in MEMS Accelerometer Servo ASIC Development, the National Science and Technology Major Project.
- Develop an automatic parameters extraction system, based on FPGA and NIOS II soft core using Verilog HDL and C, for performance analysis of accelerometer currently being used for structural health monitoring.

PUBLICATION	PATENTS	AWARDS/ACTIVITIES
MEMS Analog Feedback Acceleration	A Serial Bus Communication Bridge,	Excellent Graduate (2014)
Sensor and its Testing, Vol.32, No.4	Soochow University Patent Number:	Business English Certificate, Vantage
Pt.2 Aug. 2013, Technical Acoustic	201420121985.9	Mustang Heroes / Stampede of Service