ZHAO XIONG

http://zhaoxiong0211.github.io/, chuck.zhaoxiong@gmail.com , 224-420-2831

EDUCATION

2014.09 – 2016.03	**Northwestern University, McCormick School of Engineering**	Evanston, IL

Master of Science in Computer Science, GPA: 3.89 / 4.00

Selected Courses: Intro to Computer Systems, Data Structures and Data Management, Intro to Computer Graphics, Data Science, Probabilistic Graphical Models, Intro Artificial Intelligence, Machine Learning, Tangible Interaction Design & Learning

2010.09 – 2014.07	**Zhejiang University, College of Electrical Engineering**	Hangzhou, China

Bachelor of Engineering in Electrical Engineering, GPA: 3.69 / 4.00

Selected Courses: Optimization, Probability and Mathematical Statistics, User Experience and Product Innovation Design, Graphic Design, Computer Aided Industrial Design, Ergonomics and Innovation Design

PROFESSIONAL EXPERIENCE

2015.11 - 2016.04	**Research Assistant**	Evanston, IL

- A role for providing technology assistance for Kellogg Marketing Team
- Developed a web experiment by HTML and JavaScript

2015.07 - 2015.08	**1KE Web Designer**	Shanghai, China

- 1KE is a startup in china that aims to provide practical technology skills to users via online courses
- Redesigned its homepage, sign in/up page, account page, review page, skill score page by sketch
- Designed slides and demo video for investment presentation

2013.07 – 2013.08	**AAVA Consultancy User Study Intern**	Shanghai, China

- Engaged in questionnaire editing, focus group interview, user study, wireframe drawing and demo video shooting

PROJECT EXPERIENCE

2016.04 - Present	**D3 Visualization Development**	Evanston, IL

- Developed fancy charts inspired by artworks from Dribbble in D3.js, almost one day for each
- Developed bar chart, line chart, area chart, scatter chart and direct-force chart with beautiful animations and transitions
- Delivered them in pixels and responsively

2015.01 - Present	**Python in Data**	Evanston, IL

- Machine Learning Algorithm
  - Code my own decision tree and its pruning algorithms in one day
  - Developed regression and classification algorithms using python
- Data Challenge
  - Used open-source package, like NTLK, Pandas, and RandomForest in Sklearn to rate the relevance of a search query for an online decoration website
  - Used Pandas, Numpy, and xgboost to rate the customer Satisfaction for a bank

2015.09 - Present	**Patient Monitoring Web Design**	Evanston, IL

- This project was to provide a service for a hospital to record the patients' activity with Kinect, categorize activities into different groups and build a web for offices to see and search the recording video
- Designed the interface with Axure and Illustrator, used HTML, CSS, JavaScript, JQuery, and PHP to implement the web and built and interacted with the database with mySQL
- Visualized the data from the database with AmChart

2015.07 - Present	**Energy Monster Board Game**	Evanston, IL

- This project was to build a web to assist the board game, Energy Monster
- Drew the interface with Axure and Sketch, and implemented all the functions and transitions with HTML, CSS, JavaScript and Dart
- Connected this game with real-time appliance power using Arduino and Kill-A-Watt, uploaded the real-time power to the Internet with Arduino, downloaded the data and showed it on the web synchronously

SKILL

Tech	HTML, CSS, Javascript, D3.JS, AngularJS, Meteor, MongoDB, Dart, SQL, WebGL, Bootstrap, PHP, Python, Processing, Arduino, Matlab
Design	Photoshop, Illustrator, Sketch, Rhino, Keyshot, Premiere