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: 3.88 / 4.00
Selected Courses: Data Structures and Data Management, Intro to Computer Graphics, Data Science, Probabilistic Graphical Models, Intro to 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, Ergonomics and Innovation Design

PROFESSIONAL EXPERIENCE

2016.07 - Present	**Software Engineer, NewsOnChat Inc.**	Santa Clara, CA

- Used React Native to build front end for mobile app in both iOS and Android platform
- Implemented real-time communication and location-sharing in emergency case between users with WebSockect
- Used Redux to control dataflow in front end

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

- A role for providing technology assistance for Northwestern University Kellogg Marketing Team
- Developed a web experiment by HTML and JavaScript and tested by around 200 testers

PROJECT EXPERIENCE

2016.05	**Property Data Visualization and Web Development**	Evanston, IL

- Aimed to visualize around 80,000 property data from 1980 to 2016 and users could see a map of the US and see the cities with the most transactions by quantity and by dollar amount over time
- Processed data in Excel and Pandas in Python and converted it into JSON format
- Designed the prototype by sketch and Adobe Illustrator and implemented with D3.JS, AngularJS, HTML, CSS and JavaScript

2015.09 – 2015.12	**Patient Monitoring Web Development**	Evanston, IL

- This project was to provide a service for a hospital to record the patients' activity with Kinect, to categorize activities into different groups and to build a web for officers 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 – 2016.03	**Energy Monster Board Game Web Development**	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, and displayed the data on the web synchronously

2015.04 – 2015.06	**Is this route safe?**	Evanston, IL

- Aimed to predict whether a route is safe in Chicago based on criminal data from data.gov
- Processed and cleaned more than 400,000 criminal data by Python, and trained and tested algorithms, like Nearest Neighbor, Decision Tree and Logistic Regression, in Weka
- Used Google Map API to help with generate the test route information

SKILL

Tech	HTML, CSS, JavaScript, React Native, Redux, WebSocket, D3.JS, AngularJS, Dart, WebGL, Bootstrap, Python, Processing, Arduino
Design	Photoshop, Illustrator, Sketch, Rhino, Keyshot