XIAOWEN (SEVEN) XU
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EDUCATION

Carnegie Mellon University   08/2018 ~ 12/2019
Master of Integrated Innovation of Product & Services
Course: Data structure (Java), Relational Database Management (SQL), Internet of things (C++), Web Development (Node.js, NoSQL), Design for Smart Systems (NPL).

Zhejiang University   08/2010 ~ 06/2015
Bachelor of Architecture

INDEPENDENT PROJECTS

Trauma Forest - Web2.0 development   03/2019 ~ 05/2019
- Develop web social community to help release the pressure of group who are in the shadow of childhood trauma, where the user can create, post and edit their story as well as write comments of other's story.
- Build back-end with MEN stack (**Node.js**, **Express**, **MongoDB**, **React.js**).
- Build front-end with **HTML**, **CSS**, **JavaScript** with **semantic UI** library.
- Design algorithms to support advanced functions including smart content feeding, search, user dashboard, notification badges, log-in/out, vote/tag/favorite system, natural language input searching, user-oriented suggestions.

MeHungry - Embedded NLP Chatbot   10/2018 ~ 12/2018
Demo: http://safe-savannah-19759.herokuapp.com/
- Develop an online table-order embedded program based on NPL Bot interfaces.
- Build back end with MEN stack (**Node.js**, **Express**, **MongoDB**, **React.js**).
- Connected with **DialogFlow** API and trained natural language interaction system.
- Build interactive interfaces based on **React.js** framework and **materialize.css** library.

Java Web Service Development – Events Recommendation   08/2018 ~ 10/2018
- Develope an interactive web page for users to search nearby entertainment events
- Improve personalized recommendation based on search history.
- Create **Java servlets** using **Tomcat** to handle HTTP requests/responses with **RESTful APIs**.
- Build **MySQL** database to store individual user information and capture real nearby activities data by navigating real-time location of the user.

EXPERIENCE

Adaviv Inc.   **Greentwon Lab, Somerville, MA**
Software and UX Development Intern   05/2019 ~ 08/2019
- Lead the development of the field image annotation software using Javascript(**jQuery**), **Paper.js**, **semantic-UI**, and **lambda function** on **AWS**, where one data annotator would finish 1000 images per week at an efficient speed by choosing a set of powerful tools.
- Lead the iteration of the on-site data capture software by adding the work-session program, improving the front-end, adding auto-testing function by rewriting scripts. The data collection velocity noticeably increases from 50/day to 200/day as it improves.
- Work with data scientists and robotic engineer to integrate models, back-end and front-end components of the Company's crop care software system with cloud infrastructure.
- Research and design interfaces that visualize plant crop that is output by the plant sensors and data analytics.

Yijian Technology   **Hangzhou, China**
Software Developer   08/2017 ~ 05/2018
- Work in a team of 5 to develop a VR-driven online memory augment website. Design and implement UI/UX platform for the Mindroom.cn web-editor. Modeled, rendered and deployed 3D virtual scenes.

Archipoetry Studio   **Hangzhou, China**
Co-partner and Principal Designer   05/2016 ~ 05/2017
- Lead and manage architecture design programs. Website: https://www.archipoetry.com/

SKILLS

Object oriented design
Java
Javascript
C++

Data Structures and Algorithms
BST (LLBR BST, Kdtree), Hash Table, Graphs, MST, Tries, Union-Find, Stack & Queue, Advanced Sorts, A*, Dynamic Programming, etc.

Database Management
Oracle SQL
MongoDB
DynamoDB (AWS)

Back-end Development
Node.js / Express (advanced)
AWS Lamda function
Java / Tomcat
Ruby / sinatra

Front-end Development
HTML
CSS
JavaScript
Frameworks and libraries:
React
Bootstrap
semanticUI
jQuery UI
paper.js
d3.js

Prototyping
Sketch
Adobe Illustrator
Adobe Photoshop

Design
Tattoo designing and making
UX research and design
Graphic design
Interactive web design
Architecture design
3D model and render
Computational design