THOMAS (HONGJIAN) YANG

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EDUCATION

Cornell Tech New York, USA

Fall 2015 - Present

Master of Information System, Connective Media

Selected Course: Startup Systems Design and Engineering, Applied Machine Learning, Independent Study on Human-Computer Interaction, Optimization Methods

Peking University Beijing, China

Fall 2011 - Fall 2015

Bachelor of Science, Computer Science

Selected Course: Information Visualization, Operating Systems, Compilers, Computer Networks, Analysis of Algorithms, Web Development, Human-Computer Interaction

AWARDS

Outstanding Intern Award, Microsoft Research Asia (Top 10%)
President Fellowship, Peking University
Jacobs Institution Masters Fellowship, Cornell Tech

2014 2014 2016

RESEARCH EXPERIENCES

Cornell Tech Enhancing Ability Lab, Independent Study

September 2015 - December 2015

Research on a novel text editing method using speech (MongoDB, Node.js, Express, Web Speech API)

New York, NY

- · Built a RESTful voice-to-text server using ExpressJS and Google Voice Recognition.
- · Built an interactive questionnaire webpage to collect users' voice, apply to our method and store results in MongoDB.

Peking University Visualization Lab, Research Intern

May 2013 - March 2014

Researched on tracing individuals by their Wi-Fi login records on different adapters (JavaScript, D3js)

Beijing, China

- · Designed a visualization to display this Wi-Fi dataset as trajectory animation on map, using D3js.
- · Implemented playback controls and a moving flow chart on timeline showing the number of people on the map.

EMPLOYMENTS

Plated

May 2016 - August 2016

Engineering Intern (Ruby on Rails, Node.js, React, Amazon Alexa, Amazon Lambda, DynamoDB, Web Speech API) New York, USA

- \cdot Worked as the first international engineering in tern.
- · Built a voice assistant web app for Plated recipes using **Node**, utilizing **Amazon Alexa** for voice recognition, **Amazon DynamoDB** for data storage, and **Amazon Lambda** for deployment.
- \cdot Built front end interface to display images and texts for the voice response, using **React**.
- · Wrapped up internal API and built **Node** version SDK.
- \cdot Visualized recipe steps on a timeline for better user experience, using ${\bf D3js}.$

Beijing Spark Co. Ltd.

March 2015 - July 2015

Beijing, China

Created social networking service for entrepreneurs.

· Refactored front end to applied MVC model using **Backbone**.

Front End Developer (Ruby on Rails, Postgress, Backbone)

- · Built serveral Rails models (user, question, answer, comment), setup Postgress for storage.
- · Implemented login process with role based authentication.

Beijing Giraffe Tech Co. Ltd.

February 2014 - February 2015

Beijing, China

Co-founder (Android, UI, JavaScript)

Created smart wearable devices to help users get a better sitting posture.

- · Designed and built product website and applied parallel scrolling using jQuery and Semantic UI.
- · Created multiple infographic views for our Android App to present users' data on the device.
- · Wrote a module to connect and synchronize data from our device to our Android App.

Microsoft Research, Asia

April 2014 - October 2014

Beijing, China

 $Engineering\ Intern\ (Information\ Visualization,\ Storytelling,\ JavaScript,\ D3js)$

- Developed a graphic morphing library (line interpolation, customized animation) for a data driven storytelling system based on HTML5 Canvas.
- · Built a data analysis and visualization tool (timeline controls, interactive scatterplot, WYSIWYG SVG editor) for huge temporal dataset using D3js.

TECHNICAL SKILLS

Languages
Front end development
Back end development
Miscellaneous

CoffeeScript/JavaScript/TypeScript, Ruby, C/C++, Java(Android), Python, PHP, Lua React, Polymer, Backbone, D3js, JQuery, Bootstrap, Mocha, Chai, Pug, Stylus, Gulp, Webpack

ExpressJS, Ruby on Rails, Django, Flask, Nginx, MongoDB, Postgress

Shell, Prototyping, Git, Vim, CI, LATEX