

# Hui Xie

FRONT END ENGINEER · WEB DEVELOPER

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“Be the change that you want to see in the world.”

## Education

### University of British Columbia

Vancouver, BC, Canada

M.A. IN ARCHITECTURE

Sep. 2014 - Exp. May. 2018

- Professionally trained with design thinking, creative problem-solving as well as communicating with compelling graphics. Specialized in computational design programming.
- Won the master of Architecture merit scholarship which is given to the promising student in SALA Dept.

### Iowa State University

Ames, IA, U.S.

M.S. IN STATISTICS

Sep. 2011 - Oct. 2013

- Have a solid understanding of the statistical inference and data analysis. The thesis work is focused on computational statistics acceleration algorithms.

### South China University of Science and Technology

Guangzhou, China

B.ENG. IN PROCESS EQUIPMENT AND CONTROL ENGINEERING

Sep. 2007 - Jul. 2011

- Have a solid understanding of the automatic process system control and design.

## Experience

### Computational Statistics Lab (Prof. Mervyn G Marasinghe)

Ames, IA, U.S.

GRADUATE RESEARCHING ASSISTANT

Sep. 2011 - Oct. 2013

- Implemented the Efficient Maximum Likelihood Algorithms in the acceleration of the Multivariate linear mixed model.

### DIALOG (Multi-disciplinary Design Firm)

Vancouver, Canada

ARCHITECTURAL DESIGN INTERN

May. 2016 - Dec. 2016

- Involved in the concept and schematic design of the Northeast Falsecreek complex development.
- Conceptualized and illustrated the design diagrams and renderings.
- Attended the client meetings to present and discuss the design concepts.

### Timbre Research Lab (Prof. AnnaLisa Meyboom)

Vancouver, Canada

GRADUATE RESEARCHER

Jan. 2015 - May. 2015

- Developed the Rhino scripts (Python) to generate the digital complex geometry.
- Created the diagrams and fabrication drawings for fabrication.

## Projects

### 3D-Interactive Resume Generator

Vancouver, Canada

PERSONAL PROJECT

3 weeks

- Generating 3D interactive web-based resume from simple JSON format.

### Architecture Roadmap Web App

Vancouver, Canada

PERSONAL PROJECT

2 weeks

- An info map that provide crowd-sourced reviews for famous architecture information
- Implemented the JQuery plugin Typeahead and backend SQL database to dynamically serve the user searching activities.
- Setup and configure the Backend Server using Amazon Web Service (along with Python, Flask and Apache).

## Skills

**Programming** Javascript, Python, R, LaTeX, C

**Web Develop** JQuery, D3.JS, Three.JS, Processing, Node.JS, HTML5, CSS

**Data Analysis** Data mining, Data visualization, Engineering statistics, Multivariate statistical inference, Bayesian statistics

**Design** Photoshop, Illustrator, Indesign, Rhino3D, Sketchup

**Languages** English, Chinese, Cantonese