

# Jesse Jia

## Full Stack Developer

A determined Applied Mathematics student motivated to make an impact in this world. Capable of utilizing mathematics to analyze complex open-ended problems. I have a passion for learning and will do anything to stay up to date with emerging technologies. Currently manage a travel blog ([www.followingjesse.com](http://www.followingjesse.com)) and a web design company ([www.jessexjia.com](http://www.jessexjia.com)).

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## WORK EXPERIENCE

### Full Stack Web Developer & Owner JXJ Web Design

01/2018 – Present

Web design business responsible for creating web solutions including everything from design, construction development, and hosting.

#### Achievements/Tasks

- Consults clients' objective of the website and illustrates possible designs using wireframes.
- Develops a responsive layout using HTML, CSS, and JS.
- Walkthrough the server setup and hosting in the best interest of the client (shared hosting, dedicated hosting).

### Research Assistant RIVAL Lab - Queen's University

09/2017 – 01/2018

Lab focused in experimental fluid dynamics along with the development of novel post-processing techniques for Eulerian and Lagrangian data.

#### Achievements/Tasks

- Designed a rig using SolidWorks capable of withstanding translational forces for a delta wing in a water tank.
- Collected wing response data identifying unwanted vortices for the United States Navy.

### Data Analyst Technische Universität Berlin

05/2017 – 09/2017

A lab focused on creating a gamified education system that educates topics to students based on various game scenarios and outcomes.

#### Achievements/Tasks

- Conducted in-depth data and statistical analysis using MATLAB, Excel, and R.
- Explored various analysis techniques to identify possible outliers and the possible rationale.
- Identified ways to optimize game results from biases while creating a fair and enjoyable experience.

## EDUCATION

### Applied Mathematics and Mechanical Engineering Queen's University

2015 – Present

#### Relevant Coursework

- Probability & Statistics
- Differential Equations
- Algorithms
- Solid Mechanics
- Real & Complex Analysis
- Linear Algebra
- Control theory
- Data Structures
- Fluid Mechanics
- Coding Theory

## SKILLS

React.js

Node.js

MongoDB

Express.js

MySQL

MATLAB

R

TensorFlow

## PROJECTS

### Following Jesse (2016 – Present)

- Personal blog of my life experiences around the world. ([www.followingjesse.com](http://www.followingjesse.com))

### ShoMe - Hack Harvard (Winner) (2018)

- Visualize a network of connections between events around the world. (<https://jessejia.wixsite.com/shome>)
- Utilizes a modified Breadth First search written in Python to graph and identify shortest path of event connections.

### InstaAutomation (2018)

- Automated JavaScript application that automates the interaction of Instagram posts created using node.js (<https://git.io/fAdhw>)

### TruState - StartupBus (2018)

- Real Estate application that facilitates the selling of property without a realtor.
- Created an attractive landing page using HTML/CSS/JS to drive interests in our MVP demo. ([www.trustateapp.com](http://www.trustateapp.com))

## ACHIEVEMENTS

### DAAD RISE Scholarship Recipient (2017)

Research in Science and Engineering in Germany. (\$7000)

### Queen's University Principal Scholarship (2015 – 2016)

A renewable scholarship for up to 2 years presented to students able to maintain a minimum GPA of 3.5 in their first 2 years of study. (\$4000)

## LANGUAGES

JavaScript



HTML/CSS



Python



Solidity



## INTERESTS

Tennis

Photography

Videography

Startups

Travelling

Running

Blockchain

Investing