# Ziying Zhang

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Github: https://github.com/amaziying

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Product-oriented, test-driven, and highly-adaptable Systems Design Engineer looking to solve challenging problems.

**Programming**           JavaScript, C++, Python, with exposure to Java, PHP, and Ruby
**Application Development**  AngularJS, Backbone.js, Node.js, MongoDB, Cassandra, Unit testing

## EXPERIENCE

**Software Engineering Intern**
**Reflektion, Inc.**                    *May 2015 – Sept. 2015*    San Mateo, CA

- Developed customer-facing Analytics & Controls Dashboard using AngularJS, Python, Node.js, Cassandra and MongoDB
- Prime implementer for Jasmine unit-testing across the stack to ensure quality and accountability amongst developers

**Research Assistant**
**University of Waterloo**              *Jan. 2015 – Apr. 2015*    Waterloo, ON

- Awarded President's Research scholarship for part-time research under Dr. Chris Eliasmith for the Nengo neural simulator
- Developed visualization and simulation UI for neural networks using D3.js, and various front-end technologies

**UI Development Intern**
**Genesys Labs, Inc.**                 *Aug. 2014 – Dec. 2014*    Toronto, ON

- Developed modern UI for Genesys' core enterprise administrative application in Backbone.js, jQuery, and Jasmine
- Drove efforts to implement and automate unit tests into existing web app to encourage test-driven development

**Lead Developer**
**Nspire Innovation Network (non-profit)**   *Aug. 2014 – May 2015*    Toronto, ON

- Designed and developed NBTC (conference) 2015 website using AngularJS (http://nbtc.nspire.org)

**Email Development/Production Intern**
**Indigo Books and Music, Inc.**       *Jan. 2014 – Apr. 2014*    Toronto, ON

- Produced, tested, and coordinated marketing emails deployed to over a million users at a time

## PROJECTS

**Socialight** (Instagram Analytics)              *Ongoing*

- Designed and developed an analytics platform for Instagram using the MEAN stack, giving insightful and actionable reports
- Features include: hashtag and caption keyword optimization, sentiment analysis on public reception

**Patient Kinect**                        *YHack '14 - Yale University*

- Architected and collaborated with a team to develop application around Microsoft Kinect and Azure to allow healthcare patients to contact caretakers or family using custom hand gestures and/or voice commands

## EDUCATION

**Candidate for B.A.Sc. in Systems Design Engineering**
**University of Waterloo**              *Sept. 2013 – Apr. 2018*

- President's Scholarship of Distinction (2013), President's Research (2015) & International Experience Award (2015)
- **Relevant courses**: Data Structures & Algorithms, Circuits & Instrumentation,  Human Factors Design, Statistics

## INTERESTS

Wearable tech, sustainable design, electric cars, soccer, distance running, tech blogs, photography