Ziying Zhang

Website: http://amaziying.me
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Product-oriented and test-driven Systems Design Engineer looking to solve challenging problems.

Programming JavaScript, C++, with exposure to Python, PHP
Application Development AngularJS, BackboneJS, Node.js, MongoDB, Cassandra, Unit testing

EXPERIENCE

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

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

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

- Awarded $1500 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 *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 2015 website using AngularJS (http://nbtc.nspire.org)

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

- Produced marketing emails deployed to over a million users at a time

PROJECTS

Instalytics (Instagram Analytics) *Ongoing*

- Designed and developed an analytics platform for Instagram using the MEAN stack, targeted towards marketers
- Features include: hashtag and caption keyword optimization, sentiment analysis on public reception

Patient CareNect *YHack '14 - Yale University*

- Architected and developed 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 and Algorithms, Digital Computation, Circuits & Instrumentation, Human Factors Design

INTERESTS

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