Ziying Zhang

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Product-oriented and test-driven Systems Design Engineer looking to make a difference in the tech and wider community.

Software Engineering   Object-oriented JavaScript, C++, with exposure to Python
Technologies/Databases   AngularJS, BackboneJS, NodeJS, MongoDB, Cassandra, Jasmine unit-testing

EXPERIENCE

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

- Developed customer-facing eCommerce personalization software end-to-end from AngularJS front-end, to NodeJS API design and implementation, Cassandra and MongoDB schema design, and error-handling in NodeJS
- Prime implementer for Jasmine unit-testing across the stack to ensure quality, accountability, and maintainability

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

- Awarded $1500 scholarship to take part in 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
- Executed A/B tests that solidified design decisions to increase click-through rate on links by up to 8%

PROJECTS

Patient CareNect   *YHack '14 - Yale University*

- Architected and developed application around Microsoft Kinect to allow healthcare patients to contact caretakers or family using custom hand gestures and/or voice commands

The Pebble Runner (published on Pebble App store)   *Hack the North '14 - University of Waterloo*

- Designed and developed Pebble watchface with custom pedometer algorithm that tracks steps in device's memory

EDUCATION

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

- President's Scholarship of Distinction, President's Research & International Experience Award
- **Relevant courses**: Digital Computation, Data Structures and Algorithms, Human Factors Design Engineering

INTERESTS

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