

Ziying Zhang

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SKILLS

SOFTWARE

Proficient in:

JavaScript • Python • C++ • MATLAB
MongoDB • HTML • CSS

Familiar with:

Scala • Cassandra • MySQL • Bash

Frameworks:

Backbone.js • AngularJS • Node.js • D3.js
Highcharts • Django • Flask • Play
Jasmine • Mocha • Chai • Sinon

PROJECTS

TRAVELING TOURIST

Optimizes a tourist's route through all the places on their list, inspired by the traveling salesman problem.

PEBBLE RUNNER

A Pebble Smartwatch app to monitor and analyze user physical activity.

EDUCATION

UNIVERSITY OF WATERLOO

SYSTEMS DESIGN ENGINEERING

Expected May 2018 | Waterloo, ON

Option in Computer Engineering

AWARDS

President's Research Award (2015)

International Experience Award (2015)

President's Scholarship Distinction (2013)

COURSEWORK

Data Structures and Algorithms

Human Factors Design

Engineering Design

Circuits and Instrumentation

Digital Systems

Digital Computation

LINKS

GitHub:// [@amazing](#)

Website:// amazing.me

LinkedIn:// [linkedin.com/in/amazing](https://www.linkedin.com/in/amazing)

EXPERIENCE

INKLING | SOFTWARE ENGINEERING INTERN

Jan 2016 – Apr 2016 | San Francisco, CA

- Built UI and integration with authentication services in Backbone.js and Scala to deliver a new central authentication service for all Inking applications.
- Created a robust system in Scala with Play framework for parsing post-compiled CSS to introduce custom brand styling for corporate customers.
- Refactored Inking API python client to improve error-handling consistency and error logging across the board.
- Wrote bash scripts to integrate with Jenkins CI for automatically uploading static assets to S3 on new builds.

REFLEKTION | SOFTWARE ENGINEERING INTERN

May 2015 – Sept 2015 | San Mateo, CA

- Reduced analytics reporting loading speed by 50% by designing a Cassandra database schema to store Google Analytics data for all Reflektion customers and writing generic aggregation methods for querying the table data.
- Delivered configuration controls and custom analytics reporting on customer-facing dashboard using AngularJS, Node.js, MongoDB, Cassandra.
- Wrote unit-tested robust REST APIs for the machine learning platform's rules engine interface in Node.js.
- Introduced Jasmine unit-testing across the stack and wrote full unit testing coverage for utility methods and new features.

GENESYS | UI DEVELOPMENT INTERN

Aug 2014 – Dec 2014 | Toronto, ON

- Developed UI for an administrative dashboard application in Backbone.js.
- Integrated Jasmine unit-testing to work with existing complex front-end application.

INDIGO | EMAIL PRODUCTION COORDINATOR

Jan 2014 – Apr 2014 | Toronto, ON

- Coordinated with marketing specialists and designers to produce and ship out email marketing campaigns reaching upwards of a million customers.
- Designed and conducted A/B tests which led to design improvements that improved clickthrough rate by upwards of 15%.

RESEARCH & DEVELOPMENT

WATERLOO THEORETICAL NEUROSCIENCE | RESEARCH ASSIST.

Jan 2015 – April 2015 | Waterloo, ON

Awarded President's Research scholarship under supervision from Dr. Chris Eliasmith to develop the Nengo neural simulator visualization and simulation UI using vanilla JavaScript and D3.js.

NSPIRE INNOVATION NETWORK | LEAD DEVELOPER

Sept 2014 – April 2015 | Toronto, ON

Lead the development of new website for NBTC '15 conference, reducing overall bounce rate by 20% compared to previous website.