

Ziying Zhang

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EDUCATION

UNIVERSITY OF WATERLOO

SYSTEMS DESIGN ENGINEERING

Expected May 2018 | Waterloo, ON

Option in Computer Engineering

PROJECTS

DIA-BUDDY

Diabetes early-stage diagnosis and management tool powered by Microsoft Azure machine learning.

TRAVELING TOURIST

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

PEBBLE RUNNER

Pebble Smartwatch app to monitor and analyze user physical activity.

SKILLS

PROGRAMMING:

JavaScript • Python • Scala • C++

FRONT-END:

React • AngularJS • Backbone.js
Unit Testing • HTML • CSS

BACK-END:

Node.js • Play • Flask • Django
MongoDB • Cassandra

REFERENCE

"Ziying is one of those rare engineers who has shown at an early stage in his career that he is going to go places. He would actively engage in design discussions about product and proactively come up with suggestions to make it better. Within a short period of time, he scored high on intelligence and reliability. He will be an impeccable asset to any team. I wish him all the best"

- Asif Iqbal, Manager @Reflektion

LINKS

GitHub:// [@amazing](#)

LinkedIn:// [in/amazing](#)

EXPERIENCE

COURSERA | SOFTWARE ENGINEERING INTERN

Aug 2016 – Present | Mountain View, CA

- Backend engineer on the Coursera for Business team

INKLING | SOFTWARE ENGINEERING INTERN

Jan 2016 – Apr 2016 | San Francisco, CA

- Delivered a new central authentication service for all Inkling applications by building UI in Backbone.js and integrating with authentication services in Scala.
- Introduced custom brand styling for corporate customers by creating a robust system in Scala with Play framework for parsing post-compiled CSS.
- Refactored Inkling 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 loading speed of analytics reports by 60% by designing a Cassandra database schema to store Google Analytics data for all Reflektion customers and creating generic aggregation methods for querying the table data.
- Delivered configuration controls and custom analytics reports 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 deliver email marketing campaigns reaching upwards of a million customers.
- Designed and conducted A/B tests which led to design changes improving clickthrough rate by upwards of 15%.

RESEARCH & DEVELOPMENT

WATERLOO THEORETICAL NEUROSCIENCE | RESEARCH ASSIST.

Jan 2015 – Apr 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 – Apr 2015 | Toronto, ON

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