Ziying Zhang

http://amaziying.me
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SKILLS

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

FAMILIAR:
Scala • Cassandra • MySQL • Bash

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

TOOLS:
Git • Docker • S3 • Jenkins

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.

LINKS

GitHub:// **@amaziying**
Website:// **amaziying.me**
LinkedIn:// **in/amaziying**

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
Probability & Statistics
Human Factors in Design
Engineering Design
Circuits & Instrumentation
Digital Computation

EXPERIENCE

COURSERA | Software Engineering Intern
Aug 2016 – Present | Mountain View, CA
- University and enterprise product 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.