

Joy (Xiaoji) Zhang

3B Computer Science and Statistics, University of Waterloo

CONTACT INFO

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SUMMARY

Highly-motivated self-learner

Aspiring developer and researcher

Solid mathematical foundations

Award-winning oral/written

communication skills

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR OF MATHEMATICS

HONOURS COMPUTER SCIENCE

HONOURS STATISTICS

Cum. average: 90.3%

Expected Dec 2018 | Waterloo, ON

SKILLS

Proficient:

C • C++ • Ruby

Full-Stack Web Development

(Ruby on Rails, Angular/Node/ReactJS)

Object-Oriented/Functional Programming

Data Analysis and Statistical Inference

Familiar:

Python • Java • C# • Javascript • HTML5

• Matlab • R • SQL • Bash

Machine Learning

COURSEWORK

Distributed Systems

Artificial Intelligence

Data Visualization

Statistical Learning - Classification

Computational Statistics & Data Analysis

Models of Computation

Operating Systems

Algorithms

Data Structures and Data Management

Foundations of Sequential Programs

Object-Oriented Software Development

EXPERIENCE

THEScore INC. | RUBY DEVELOPER - ESports

Apr 2016 – Aug 2016 | Toronto, ON

- Researched and implemented GraphQL endpoint with built-in caching, pagination and batch-loading data functionalities.
- Extended database and API endpoints using dynamic routing to feature news and match results of Call of Duty, Street Fighter and Smash Bros.
- Designed and built infrastructure for Korean data ingestion from external APIs.

INTELLISOFT DEVELOPMENT INC. | JUNIOR DEVELOPER

Aug 2015 – Dec 2015 | Toronto, ON

- Worked on the front and back ends of the George Brown College website.
- Refactored internal Apache Solr search in C#, increased speed by 4 times.
- Designed, built and deployed three responsive versions of homepage using .NET, jQuery and Bootstrap.
- Assisted Ektron CMS upgrade through performing tests and tracking bugs.

RESEARCH

MACHINE LEARNING LAB | UNIVERSITY OF WATERLOO

Jan 2017 – Present | Waterloo, ON

Working with Prof Pascal Poupart to develop a conversational agent (chatbot) using machine learning and natural language processing techniques.

DATA SYSTEMS GROUP | UNIVERSITY OF WATERLOO

Sept 2016 – Dec 2016 | Waterloo, ON

Developed a dynamic graph visualization tool using Java, Matlab and JavaScript, supervised by Semih Salihoglu.

PROJECTS

LOOPRAC | devpost.com/software/looprac-gvui2s | github.com/looprac

A carpool matching web application that allows drivers and passengers to find each other easily. Built the data API and user authentication service using Rails. Submitted to Hack the North 2016.

PEOPLE'S CHOICE OF BEST COACH

Team project for the 2014 Mathematical Contest in Modelling aiming at proposing the top five college coaches of all time in three different sports. Built decision models based on Analytic Hierarchy Process using Matlab. Optimized result with a forecasting model based on Artificial Neural Network. Received the Honorable Mention Prize.

PERSONAL WEBSITE | github.com/joy-xiaojizhang/personal_website_1

Built from scratch using AngularJS and Ruby on Rails. Implemented blogging features. Designed front-end with Bootstrap.

INTERESTS

Distributed Systems • Databases • Data Science • Data Infrastructure
Natural Language Processing • Computer Vision • Graphics