Elena Zhan

Honours Computer Science Co-op, 2A
University of Waterloo, September 2015 - present.

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WORK EXPERIENCE

Nascent Digital (May - Aug 2016: Web Developer Intern)

- Implemented design changes to improve UX and fixed existing bugs on Heart and Stroke Foundation's 'Risk Assessment' web app and '<30 Days' mobile app using Visual Studio .NET (c#, cshtml, less)
- Fixed security issues, developed pages, and implemented a referral program for Public Mobile's website using AngularJS, Sass, PHP, MySQL
- Made front-end updates to Tech Toronto's website (Javascript, Sass, HTML)
- Worked alongside designers, other developers, the QA team and the clients on each of these projects
- Overall Rating: Outstanding Achievement (highest)

University of Waterloo (Sep 2016 - present: Math TA)

- Marking assistant for first year calculus

PROJECTS

Eat Social (2016: Hack the North)

- Built a web app with two teammates that pairs users in proximity and recommends a restaurant at optimal distance from their locations
- Used AngularJS, Firebase and Yelp API

Pipette Automation (2016: Delta Hacks)

- Designed and built an automated pipetting robot with two teammates
- Programmed motion control into Arduino using C++

Tutoring Website (2014 - 2015: Personal side-project)

- Designed and developed a website for my high school tutoring program to help match students with tutors
- Used HTML, CSS, PHP, and MySQL. Hosted website on Amazon EC2

Racket Interpreter (2015)

- Wrote a basic Racket interpreter in the Racket language, implementing binary operations, a stepper tool, and function definition and application

Castle Wolfenstein C64 (2015)

- Built a modified version of the stealth game in Java using Swing with a partner
- Implemented an enemy AI (enemies chase the player when in their field of view) and various power-ups for the player (e.g. increased speed, invisibility shields)

EXTRACURRICULAR ACTIVITIES

Science Olympiad: Team Leader (2014-2015)

- Planned weekly events for 100+ students
- Organized and prepared teams for various science competitions

Computer Science Club (2012-2014)

- Developed problem solving skills and learned extra computer science concepts outside of the high school courses in weekly club meetings

SKILLS

Python
Java (Eclipse)
C, C#
Racket (Scheme)
Haskell

HTML
CSS (Sass & Less)
AngularJS
Javascript

PHP
MySQL
.NET

Linux
Git
Grunt / Gulp
Postman

RELEVANT COURSES

Object-Oriented Software Development

Logic and Computation

Elementary Algorithm Design and Data Abstraction

Designing Functional Programs (Adv. level)