Alisa Tkaczyk

Bachelor of Computer Science Honours, Minor in Psychology

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Professional Experience

Tata Consultancy Services – Software Consultant   January 2017 (Present)
- Provided technical support and implemented solutions for clients in fast changing environments. Used knowledge of Git, HTML5, CSS3, EJS, Sass and ES6 on an agile team.

Real Programming for Kids – Video Game Programming Instructor   May 2015 (18 months)
- Educated children between the ages of 7 and 17 on fundamental programming concepts in languages such as Visual Basic, Java, Alice 2.0, and C# to develop usable video game projects.

Projects & Acquired Technical Skills

Building Mental Models of Usable Security – Raphael.js, usability inspection, HCI & wireframing
- Designed an evaluated an interactive interface to build mental models of browser security and related computer security concepts for the ordinary user. Inclusive of development, design, modification and testing of mockups and prototypes over multiple iterations.

Sudoku Solver – Java, applied AI algorithms, formal evaluation report & demo presentation.
- Created a Sudoku solver to test the efficiency of simulated annealing and genetic algorithms and their varied effectiveness in solving Sudoku boards within a range of difficulty.

Ivanhoe – Java, SDLC, design patterns, GUI dev, JUnit testing, agile methodologies & teamwork skills.
- Developed the GUI and documentation for a networked card game as the group lead in a team of three. The project was graded based on use of design patterns, and documentation of specific diagrams used to assist in the SDLC and software quality assurance.

Hacking the Linux Kernel – C, Bash, code review & progress documentation.
- Inspected the Linux kernel and discovered the source for a variety of function calls, worked in depth with the sleep and ls command source code. Successfully modified the ls command to randomly return comedic phrases.

Computer Science courses & applied project languages

COMP3005 Database Management – SQL
COMP4109 Applied Cryptography – Java
COMP3007 Programming paradigms – Dr. Racket, Scheme
COMP4106 Artificial Intelligence – Python

Leadership & Extra Curricular

Capital One Hackathon	November 2017
Ladies Learning Code	October 2016/17
Youth Basketball Coach	June 2017 - Present
Microsoft Coding Competition	October 2016
Iot613 Volunteer	September 2016
Carleton CS Board	May 2015 (8 months)

Software Developer with soft skills.