# Alisa Tkaczyk

BSc. Computer Science Honours, Minor in Psychology, 2016
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## Professional Experience

**Tata Consultancy Services** – Software Developer                                January 2017 (Present)
- Provided technical assistance and solutions to clients on a variety of growing teams and changing environments. Used knowledge of HTML5, CSS3, EJS, Sass, 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 Alice 2.0, C#, Visual Basic and Java 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 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.

## Other (limited) languages
### & courses I used them

Intro to Software Engineering – C++
Database Management – SQL
Programming paradigms – Dr. Racket, Scheme
Artificial Intelligence applications – Python
Web development – HTML5, CSS3, Node.js

## Leadership & Extra Curricular

Microsoft Coding Competition     October 2016
Iot613 Volunteer                September 2016
Board of Directors          May 2015 (8 months)
GoCodeGirl                       March 2015
Varsity Rowing        August 2013 (12 months)

**Software Developer with soft skills.**