Katarzyna Ruszowska

650 Scranton Pocono Hwy., Covington Twp., PA, 18444 | 570-677-6454 | ruszowsk@usc.edu

---

Work Experience

Software Development Intern
WARSAW UNIVERSITY OF TECHNOLOGY
June 2015 - August 2015 | Warsaw, Masovian District, Poland
- Created a drawing user interface for the microwave research department using Java and JavaFX Scene Builder.

Data Structures Lab Teaching Assistant
UNIVERSITY OF ROCHESTER
January 2015 - May 2015 | Rochester, New York
- Led lab sessions; explained data structures and programming concepts; graded labs and projects.

Education

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA
Master of Science in Computer Science   Expected May 2018
UNIVERSITY OF ROCHESTER, ROCHESTER, NY
Bachelor of Science in Computer Science   May 2016
Cumulative GPA: 3.6/4.0
Relevant Coursework
- Logical Foundations of Artificial Intelligence, Data Mining, Programming Language Design and Implementation, Computer Organization, Undergraduate Problem Seminar (advanced modularization, type specification, concurrent data structures, and cache performance), Algorithms, Computation & Formal Systems, Web Programming

Selected Computer Science Projects
- Concurrent Queue (Java)**:** Worked in a team to optimize a given blocking queue implementation and to write and optimize an unblocking queue implementation. Analyzed the performance of the queues, specifically focusing on the difference in performance between blocking and nonblocking algorithms, as well as the effect of the various optimization techniques, such as backoff.
- Survival Game (Unity, Unreal, C++, C#): Worked in a team to design and create a survival game with procedural music and an AI director based on that of Left 4 Dead.
- Ground Warfare Simulation Game Player (Java): Created a program to play the game, which optimized the next move using the minimax algorithm with a depth limit and alpha-beta pruning.

Skills

- Programming: Java, JavaFX Scene Builder, Python, C, C++, C#, HTML, PHP, JavaScript, Lisp, Unity, Git, SVN
- Strong organizational, analytical, and writing skills
- Multilingual: English (fluent), Polish (functional), Chinese (basic)