



## Isaac Rothenbaum

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## Objective

To design and develop cutting edge software that betters my community and nation.

## Education

### Carthage College

Bachelor of Arts, *June 2011*

Computer Science and Graphic Design  
& minor in Communications

### Carnegie Mellon University

Masters of Science (MSIT-SE), *August 2012*

## Activities

Carthage College Div III Swim Team  
Carnegie Mellon Club Water Polo  
Carthage College Club Water Polo  
Student Athlete Advisory Committee  
Tau Sigma Chi  
Boy Scouts

## Relevant Work Experience

### Freelance Web Designer and Programmer, *Spring 2010 – Present*

Consulted to various Chicago based companies on the development of their websites. I designed and programmed Olson Communications' new company website and then served as Olson Communications' primary contact for all web related services; designing, implementing, and re-factoring web sites for their clients: North Star Foods, Quantum Foods, and Johnsonville. Also designed and developed First National Realty Group's website, implementing a property search front page and fully functioning back end interface.

### Carthage College Undergraduate Research, *Summer 2010*

Worked under Dr. Mark Mahoney researching a project titled, "Software Evolution and the Moving Picture Metaphor". Our research centered around the idea of improving the granularity at which changes to large scale software projects are recorded. We created a prototype program in Java called Ali in order to prove the topic's viability and submitted our research to numerous conferences including ICSE, CUR (Council on Undergraduate Research), & NFM (Nasa Formal Methods).

### Computer Science Tutor, *Spring 2010 – Fall 2010*

Privately tutored students in a variety of undergraduate courses from 100 level Introductory courses up to 300+ level Datastructures and Algorithms. I tutored primarily in C++ and Java, but was able to help students in Python.

## Professional Skills

Object Oriented programming in, C++, Java, and C# implementing polymorphism and patterns

Software design and formal specification modeling using Zed, LTSA, UML, LaTeX

Web Application development in Java, JavaScript using JQuery and AJAX, Php, Python, and ActionScript 3

Database Design and management across multiple languages and utilizing professional DBMS

Web Page design and implementation, HTML, CSS, and interactive Flash media

Ability to clearly articulate and accurately present ideas in front of an audience

## Other Work

Assistant Swim Coach, *Summer 2011*

Logo Design for Feeling Flush Online Poker, *August 2008*

Park District of Oak Park Life Guard, *Summer 2005*

Little Huskies Swim Instructor, *Summer of 2006 – 2009*

## Notable Honors and Achievements

Eagle Scout, *Boy Scouts of America*, *August 2007*

Cum Laude, *Carthage College*, *2011*

Departmental Honors, *Carthage College Computer Science Department*, *2011*

Swim Team Captain, *Carthage College*, *2010 – 2011*

NCAA DIII Sportsmanship Award Winner, *NCAA*, *2009*

Computer Science Fellow, *Carthage College*, *2010 - 2011*

Academic All American, *NCAA*, *2011*

## Programs and Languages

C++, Java, C#, JavaScript, Php, Python, HTML, CSS, ActionScript 3, AJAX

UML, Zed, LTSA, FSP, Petri Nets, LaTeX

SQL, Google App Engine, Django, .NET

