

# Zach Cotter

31 Peterborough St. #22, Boston MA, 02215

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(847) 404-9291

zachcotter.com

zach@zachcotter.com

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## Education

Northeastern University, Boston, Ma.....2010-present

College of Computer and Information Science

Candidate for a Bachelor of Science in Computer Science and Environmental Science, 2015

**Relevant Courses:** Discrete Structures, Logic and Computation, Fundamentals of Computer Science I & II, Dynamic Earth, History of Earth and Life, Database Design, Object Oriented Design, Geographic Information Systems (GIS), Coastal Processes, Theory of Computation, Soil Science

**Honors:** President's Volunteer Service Award

**Activities:** Club Swimming

Deerfield High School, Deerfield, IL.....2006-2010

**Relevant Courses:** AP Computer Science A & AB, Independent Study in CS III, Earth Science

**Honors:** Illinois State Scholar, Worldwide Youth in Science and Engineering (WYSE) State Finalist

**Activities:** Swimming (Captain), Water Polo, Mathletes

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## Computer Knowledge

**Languages:** Java, Ruby, Python, SQL, C#, C++, Racket/Scheme, ACL2, XML, VB, HTML, CSS, Less

**APIs/Frameworks:** Ruby on Rails, Android, Swing, JDBC, JPA, Yahoo Query Language API, Jira

**Systems:** Windows, Linux

**Software:** ArcGIS, MySQL, MSSQL 2008, PostgreSQL, Apache HTTP Server, Jira, Confluence, Openfire (XMPP server), Splunk

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## Website

Visit zachcotter.com to see some of my programming projects.

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## Work and Volunteer Experience

Software Engineering Coop.....January 2013 – August 2013

NaviNet, Boston, MA

- Designed a step based development environment provisioning framework in Python to automate what used to be a 2-4 week manual setup process.
- Created a database decompression utility in C# that was used to resolve a production incident.
- Built a Python utility that cross-referenced a list of scheduled production jobs against Splunk event log data to find unstarted or incorrectly scheduled jobs.
- Developed several Java programs that used Atlassian's Jira API.

Bootstrap Teacher (Volunteer).....Spring 2011 – Fall 2012

Orchard Gardens K-8, Boston, MA and Dever-McCormack K-8, Dorchester, MA

- Lead teacher starting Spring 2012- managed a team of other student teachers
- Taught middle school students to program video games in Scheme ([www.bootstrapworld.org](http://www.bootstrapworld.org)).

Assistant Manager.....May 2012 - August 2012

Deerspring Pool, Deerfield IL

- Supervised daily routines of over 80 pool employees.
  - Facilitated guard training and evaluated employee performance.
  - Coordinated with EMS responders during emergencies.
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## Interests

Swimming, Running, Programming, Cooking, Camping, Volunteer Work, Skiing, Skydiving

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References will be furnished upon request