

Molly Darish Karcher

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science New York, NY
Bachelor of Science in Computer Engineering Expected May 2013
GPA: 3.5401

Relevant coursework

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|------------------------------|---------------------|----------------------------------|
| Circuit Analysis | Signals & Systems | Fundamentals of Computer Systems |
| Data Structures & Algorithms | Digital Systems Lab | Electronic Circuits |

WORK EXPERIENCE

Columbia University Department of Computer Science New York, NY
Teaching Assistant, Introduction to Computer Science & Programming in Java Fall 2011 - present
• Hold weekly office hours and grade weekly theory and programming assignments.
• Topics covered include: data structures, algorithm analysis, networks, architecture, and models of computation.

RWTH Aachen University Aachen, Germany
Developer, Institute for Communication Technologies and Embedded Systems May - August 2011
• Developed an application tracing plug-in based on the Eclipse framework for MAPS project (MPSoC Application Programming Studio).
• Optimized code framework to achieve running time of 0.02% of the original.

Zerve, Inc New York, NY
Operations Intern April 2010 - June 2011
• Researched potential business opportunities throughout the country.
• Drafted company guidelines for listing and organizing information within the local database.

LEADERSHIP EXPERIENCE

Society of Women Engineers, Columbia University Section New York, NY
Regional Conference Board Member Fall 2010 - present
• Work with fellow board members to plan, organize, and advertise for the 2012 SWE Region E Conference to be held at Columbia University in the spring.

Columbia University Emerging Scholars Program New York, NY
Workshop Assistant Fall 2011
• Facilitate discussions in research-based introductory seminars for first year undergraduate students in Computer Science.

Brooklyn School of Collaborative Studies New York, NY
Columbia University Gateway Program Spring 2010
• Designed a proposal for new playground equipment for handicapped children.
• As secondary facilitator, managed deadlines, delegated work, led client meetings and presentations.

SKILLS

Programming: Java, C, C++, Perl, LISP, HTML, CSS, XML, Unix/Linux, Eclipse

Lab Equipment: Oscilloscope, Function Generator, Digital Multimeter, Power Supply, Soldering Iron, Arduino