Ryan Muller

CONTACT
INFORMATION

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OBJECTIVE

To create software that empowers people to learn, manage, and connect around meaningful knowledge.

EDUCATION

Carnegie Mellon University

PhD, Human-Computer Interaction (one year) **2011 − 2012**
- NSF Graduate Research Fellowship recipient
- Program in Interdisciplinary Education Research (PIER) fellow

Harvey Mudd College

B.S., Joint Mathematics and Computer Science major **2007 − 2011**
- GPA: 3.73/4.0
- Math, computer science, and humanities departmental honors

EXPERIENCE

Geknowm: Mapping human knowledge **2012 − present**
Front-end (HTML/CSS/Javascript/Backbone.js) and back-end (Ruby on Rails) development of a complete web application for organizing educational content, authoring and taking quizzes, and developing and displaying a personal knowledge profile. Design of novel assessment interactions, knowledge extraction algorithms, scoring mechanisms, and data visualizations.

Learnstream: Web-based Learning Platform **2009 − 2011**
Client: Harvey Mudd College
Designed and developed a novel web-based learning platforms to enhance studying for students. The site is ran a pilot mathematics course for over 60 students at Harvey Mudd. A second version was developed for physics and calculus content and is available at http://learnstream.heroku.com.

Cooperative Search with Autonomous Vehicles in a 3D Aquatic Testbed **2010 − 2011**
Client: DYNAR (Dynamic Navigation for Aquatic Robots)
Project manager for a team of three math and two engineering students to develop an aquatic testbed and design and deploy control systems and cooperative behavior algorithms for robotic submarines. Presented work at the Joint Math Meetings in January 2011.

Resource Allocation for Cloud Computing **Summer 2010**
Microsoft Research Asia
UCLA Research in Industrial Projects for Students program. Investigated modern research on cloud computing. Designed and simulated resource management systems for cloud computing.

SKILLS

Programming
Ruby, Python, Java, C, C++, C#, Scheme, Haskell, MATLAB

Web development
HTML, CSS, JavaScript/jQuery/Backbone.js, Rails, Django

Machine learning
Weka