Ryan Muller

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EXPERIENCE

Sport Ngin   **Mar 2014 – present**

Developing internal and client projects using Ruby on Rails.

Geknowm   **Sept 2012 – Jan 2014**

Developed a complete web application (http://geknowm.com) using Ruby on Rails and JavaScript with Backbone.js for organizing educational content, authoring and taking quizzes, and displaying a personal knowledge profile. Designed novel assessment interactions, knowledge extraction algorithms, scoring mechanisms, and data visualizations.

Learnstream   **2009 – 2011**

Client: Harvey Mudd College

Designed and developed innovative web-based learning platforms to enhance studying for students using video and spaced repetition practice. The software (http://rudinium.herokuapp.com) was piloted for a mathematics course with over 60 students at Harvey Mudd College. Led a team in developing a second version for physics and calculus content (http://learnstream.heroku.com).

EDUCATION

Carnegie Mellon University

PhD program (one year), Human-Computer Interaction Institute   **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 (magna cum laude)
- Math, computer science, and humanities departmental honors

SKILLS

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

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

Machine learning
Python/Numpy/Scikit-Learn, Weka, educational data mining

Mathematics
Problem solving (top 500 Putnam), modeling (MCM Meritorious), tutoring, content writing