

## EDUCATION

University of Minnesota — B.S. Computer Science, 2007  
University of Minnesota — Math Minor, 2007

**Sam Bradley**  
<http://sgbmn.com>

## COURSEWORK

Computer Science I and II, Software Development, Software Engineering, Operating Systems, Computer Architecture, Natural Language Processing, Computer Graphics, Calculus I and II, Discrete Math, Statistics, Differential Equations with Linear Algebra, 2D Digital Design, Design Technology I and II, Photography

## SKILLS

Core:

Ruby, Ruby on Rails, (X)HTML, CSS, PostgreSQL, Mac OS X, Unix, SVN

Additional:

PHP, Perl, MySQL, Javascript, AJAX, Oracle, C/C++, Objective C, iPhone SDK, Java, Windows x, CVS, Git

### **Information Technology Professional, University of Minnesota, Admissions; Duluth, MN - 2008-2010**

As an Information Technology Professional at the University of Minnesota, I develop and maintain various web applications for the office of Admissions and the office of First Year Experience and Students in Transition. I report to both of these departments separately and am responsible for managing my time spent between the two, as I work mostly unsupervised. I work closely with members of these offices to collaborate ideas and to create specifications for their application needs. As an example of these applications, I created a web application that all incoming students use to register for their advisement and registration appointment. One of my main goals is to visualize how the end user will utilize the application in order to create the best experience possible for them by making the applications intuitive. Often I present ideas that the user was unaware were even possible. I design, implement, document and maintain all of the web applications for these two departments based on the specifications we create together. I utilize Ruby on Rails and PostgreSQL on a Debian development server to develop these applications and then move them to a production server. One of the biggest challenges I face is merging data with the university's PeopleSoft database. I also utilize PeopleSoft to create reports for communicating with students as well as aiding with decision making for student admissions and retention.

### **Information Technology Professional, University of Minnesota, CEHSP; Duluth, MN - 2007-2008**

I was hired as a temporary position by the College of Education and Human Service Professions primarily to create an application to assist with their accreditation. This project required an intricate understanding of the structure of their academic programs, so I met with department member regularly to build the specifications. Using this application, supervising faculty would enter information for a student's practicum, such as student teaching. Web-based evaluations for the student, faculty and cooperating teacher were then generated based on information such as what practicum the student was taking, what level of education the student planned to teach etc. An evaluation for each course a student was enrolled in would also be created for the faculty to report the student's performance in class. The application was designed to be robust and not only be appropriate for all of the department's academic programs, but also adapt to future changes. I created a small PHP framework for this project and stored the data in a MySQL database. I also worked on other projects such as an inventory system and a system for assigning workloads to faculty.

### **Advanced Level Student Web Developer, University of Minnesota, ITSS; Duluth, MN - 2004-2007**

As a student web developer, I worked closely with a supervisor and team of students to create and maintain various applications used throughout the campus. We used a Perl based framework with a MySQL back end for newer projects. The framework required extensive use of complicated regular expressions. One of our larger projects was an electronic grade book, which was used campus wide. The eGradbook allowed faculty to enter grades for assignment, projects and exams, and calculated grades based on different criteria. Students were then able to log in and see their grades throughout the semester. Another project was an online directory for alumni, which was meant as a networking tool.

### **Lab Consultant, University of Minnesota, ITSS; Duluth, MN - 2001-2004**

As a lab consultant, I was available to students and faculty as support while they used the university's computer facilities. I would trouble-shoot software and hardware issues and submit reports of unresolved issues. I worked with PC and Mac platforms and also worked to set up machines and install software.

## Interests

See <http://sgbmn.com>