AKIHIRO MAEDA

13 Comstock Cir Apt#102, Stanford, CA, 94305
(Cell) 413-559-9801 (E-Mail) amaeda10@stanford.edu
(Portfolio) https://sites.google.com/site/portfolioakihiromaeda/

EDUCATION

Stanford University, California Sep 2010 – Present
Candidate for M.S. June 2012. Major: Computer Science, HCI specialization, GPA: 3.57

Amherst College, Massachusetts Aug 2008 – May 2010
B.A. May 2010. Major: Computer Science, GPA: 3.94 (Member of Phi Beta Kappa)

Kwansei Gakuin University, Hyogo, Japan Apr 2004 – Mar 2008
Bachelor of Policy Studies March 2008. Major: Policy Studies. GPA: 3.56 (ranked 2/500)

TECHNICAL SKILLS

Web Development: (Strong) HTML, CSS, Ruby on Rails, JavaScript (Familiar With) SQLite, PHP, JQuery, JqueryTouch
Programming: (Strong) Java, Ruby (Familiar With) C, C++, Scheme, Prolog, Haskell, Visual Basic
Graphics: (Strong) Protovis, RenderMan, OpenGL (Familiar With) Java2D, GTK+, Cairo
Data Analysis: (Strong) Excel (Familiar With) R, MATLAB, SPSS, Tableau

RELEVANT EXPERIENCE

Web Application to Visualize Species Relationship Data from Encyclopedia of Life Nov 2010 – Present
- URL: http://stanford.edu/~amaeda10/cgi-bin/cs448b-2010/speciesdemo4.html
- Created the interactive visualization of species relationship data, which enables scientists and general public to learn about how species are relating to each other (e.g. predator and prey relationship).
- Implemented visualization using HTML, CSS, JavaScript and Protovis, which has a template for force-directed layout.
- Worked on front-end such as adding color gradation to the edges to show the direction of species relationship, and enabled to use an image as a node so that users can easily grasp what the node is referring to.
- Tested the application thoroughly, reported and debugged misbehaved features such as filtering and adding species data
- Presented the work and received both positive and suggestive feedback which resulted in adjusting the length of the edges and length of species name.
- Published a technical paper which explains our design decisions, implementation approaches, and related works.

Mapduler: A Location-based Scheduling Web Application for iPhone Sep 2010 – Dec 2010
- URL: http://stanford.edu/~amaeda10/cgi-bin/mapduler/login.php
- Created location based scheduling system which enables users to visualize their schedules on Google Maps, and receive recommendations from Yelp about what to do nearby.
- Designed and implemented the intuitive navigation structure and key functional components (e.g. buttons, menu bars) using HTML, CSS, and JavaScript as an initial functional prototype.
- Tested the prototype in depth manually, reported problems and debugged the program such as misbehaved buttons.
- Conducted heuristic evaluation on 3 people, face-to-face user study on 6 people, and online user study on 30 people using five-second test, navflow test, and survey monkey.
- Discovered users appreciated recommendation feature more than map-based scheduling feature.
- Improved usability based on user studies by modifying the features, interaction flow, style, and wording.
- Documented overall process and product description as a poster and presented at poster session at Stanford University, which resulted in receiving A+ as a final project for introductory HCI course at Stanford.

Summer Research Internship for Creating the Model of Human Mouse Control at UIUC May 2009 – July 2009
- Researched how people change mouse movement speed depending on distance to the target, which will allow computers to estimate where users are heading to on the screen.
- Programmed a data collection interface with C, GTK+, and Cairo, and a data analysis tool with MATLAB
- Found that users are reaching the target when a mouse velocity is less than 1.5 mickeys/millisecond.

ADDITIONAL SKILLS

Native level Japanese, fluent English, project management, contemporary dance, acting, composing music, marathon