

PRATEEK HEJMADY

WWW.PRATEEKHEJMADY.CO.IN

SKILLS

Development

XHTML, CSS, Javascript,
PHP, Perl
Java, VB.Net, Objective C

Design

Adobe Illustrator, Adobe Photoshop
Adobe Flash + Actionscript
Microsoft Visio

Relevant Tools

SPSS, Nvivo 9, Atlas Ti, Axure
Tobii Studio, Clearview
Dreamweaver

HCI Methods

Eye Tracking Studies
Contextual Inquiry & Design
Heuristic Evaluation
Statistical Analysis, Prototyping
Think-aloud observational studies
Task analysis, Card-sorting
Cognitive walkthrough

RELEVANT COURSES

Human-Computer Interaction
User Interface Design
Artificial Intelligence
Cognitive Psychology
Sensation and Perception
Design and Research Methods
Methodology of Qualitative Studies
Applied Qualitative Studies
Cognitive Modeling &
Intelligent Tutoring Systems

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EDUCATION

Master of Computer Science in Human Computer Interaction

Expected Fall 2011, Department of Computer Science, Auburn University.
GPA: 3.9/4.0

Bachelor of Engineering, Computer Science

June 2006, Visvesvaraya Technological University, Bangalore, India.

WORK EXPERIENCE

Graduate Research Assistant Auburn University

Intelligent and Interactive Systems Lab | Jan 2009 – Present

1. Thesis research – proposed a cognitive model of programmers during a program debugging session with a multi representation Integrated Development Environment (IDE). This model was empirically evaluated by conducting eye tracking based study of subjects and further supplemented by interviews and retrospective think aloud. Based on the results, a gaze controlled IDE prototype will be developed.
Tools/Technologies: VB.Net, Java, jGRASP IDE and Tobii T120 eye tracker.

2. Designed and administered surveys, interviews to students from multiple universities across the US and later analyzed data by conducting quantitative and qualitative analysis. This research intends to refine & evaluate a new “studio-based” pedagogy that actively engages students in collaborative, design-oriented learning.
Tools/Technologies: PHP, CSS, MySQL and Atlas.Ti.

Graduate Teaching Assistant Auburn University

Department of Computer Science | August 2008 – December 2010

Administered and instructed lab activities for the course, “Data Structures & Algorithms with JAVA”. Additional responsibilities included sharing administrative duty with faculty, grading student assignments and fielding student queries.

Web Developer - Intern Auburn University

Thomas Walter Center | May 2009 – July 2009 & May 2010 – July 2010

Based on my recommendations their website was re-designed accommodating web 2.0 standards. Also built a new survey tool, online application processing system.
Tools/Technologies: PHP, Javascript, CSS and XHTML.

Software Developer Perotsystems (now Dell Services)

Bangalore, India | June 2006 – July 2008

Contributed in development of new tools for reservation management, and migration of online car booking application for a European car rental company. Backed by strong experience in database management, I played a critical role in migration from Oracle 8i to SQL Server 2005.
Technologies used: JBOSS, SQL Server 2005, VB.Net 2003

RELEVANT PROJECTS

Parking Rummage iPhone Development | Summer 2010

Developed an iPhone app to resolve the parking space chaos in Auburn University, by locating the nearest empty parking lot based on real-time data. This app was featured in the fall edition of Auburn Engineering Alumni Magazine.

Ant Food Collection with Genetic Algorithm Artificial Intelligence | Fall 2009

A GUI based simulation that mimicked the process of food collection by ants, based on our genetic algorithm.

Design and evaluation of a Recommender system Human Computer Interaction | Spring 2009

Designed the interaction & interface elements to allow easy articulation; designed the underlying computation elements to collect & use user-specific data to develop recommendations. Task analysis & cognitive walk-through were used to evaluate the prototype.

Artificial Bot Counselor User Interface Design | Fall 2008

Developed a web based tool, to train Counseling Psychology students basics of a counseling session. Used contextual enquiry and design in the initial phases and later conducted heuristic evaluation.

Blucon Microsoft Academic Projects | Spring 2006

A Bluetooth based social networking chat tool for Windows Mobile 4.0. Qualified among the top projects in Bangalore, India.

SELECTED PRESENTATIONS

Presenting results of qualitative & quantitative data analysis to faculty members at SBL workshop Coeur d'Alene | June 2011

Conducted workshop on 2D Graphics & Animation Concepts for iPhone/iPad Games SIGCSE 2011, Dallas | March 2011

Presented thesis research at Lund Eye Tracking Academy Lund University, Sweden | February 2011

Presented Survey Tools to faculty members at Studio Based Learning workshop SIGCSE 2010, Milwaukee | March 2010

ACTIVITIES

ACM Auburn University Chapter Vice President Auburn University | January 2010 – December 2010

Indian Cultural Association of East Alabama Technology Director Auburn, Alabama | January 2009 – December 2009

Lee County Humane Society Core volunteer Auburn, Alabama | January 2009 – December 2009

Auburn University Indian Student Association Vice President | Fall 2008 – Summer 2009

Cryptec - Computer Science & Engineering Department Association President Senior year | August 2005 – June 2006

BDotNetStudent User Group Assistant Manager Bangalore, India | June 2005 – May 2006

AWARDS

Outstanding Graduate Student Computer Science & Software Engineering Dept., Auburn University April 2011

Travel Grant Auburn University, to present at Lund Eye Tracking Academy, Sweden February 2011

Student Leadership Award Indian Cultural Association of East Alabama November 2009

Associate Award PerotSystems (now Dell Services) January 2008

Felicitated at Microsoft India, for exceptional contribution to academia October 2006

Best Outgoing Student Department of Computer Science June 2006

Microsoft Student Partner Nitte Meenakshi Institute of Technology, Bangalore June 2005

MEMBERSHIPS

Tau Beta Pi Engineering Honor Society since March 2011

Institute of Electrical and Electronics Engineers (IEEE) since 2008

Association of Computing Machinery (ACM) since 2009