

Eva Sharma

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RESEARCH INTERESTS

Social Computing
Computational Social Science

Online Communities
Natural Language processing

EDUCATION

Georgia Institute Of Technology, Atlanta, GA Doctor of Philosophy, Computer Science	Aug 2016 - Present
Cornell University, Ithaca, NY Masters of Engineering, Computer Science	Aug 2014 - May 2015 GPA 3.87 / 4.0
Massachusetts Institute of Technology, Cambridge, MA Bachelors of Technology (Semester Abroad Program), Electrical Engineering and Computer Science	Aug 2011 - Jan 2012 GPA 5.0 / 5.0
SRM University, Chennai, TN, India Bachelors of Technology, Computer Science (Gold Medalist)	July 2009 - May 2013 GPA 9.86 / 10.0

WORK EXPERIENCE

Oracle, Cambridge, MA Software Developer II • Implemented Multiple Payment and Address Book Module for Mobile Commerce iOS Application	July 2015 - Aug 2016
SAP Labs India Pvt. Ltd. Bangalore, India Associate Developer • Worked on Software Logistics Process Repository for Lifecycle Management of SAP Software • Designed and implemented installation and update feature for HANA Application Lifecycle Management • Co-Implemented delete and copy stack backend functionality for Cross Product Stack Editor	July 2013 - July 2014
SAP Labs India Pvt. Ltd. Bangalore, India Intern • Analyzed Customer Profile Data in XML format by automating processing of XMLs and feeding them to HANA database where the data can be later visualized as graphs • Built an interface which utilizes gestures and voice to interact with computers.	Feb. 2013 - June 2013

TEACHING

Cornell University, Ithaca, NY Teaching Assistant Prof. Lucja Kot, CS 4320/5320 Introduction to Database System • Setting up homework, holding office hours to solve students doubts and grading exams and homework	Spring 2015
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PROJECTS

Semantic Legal Information System's Legal Text Indexing Application Sara S. Frug, Legal Information Institute, Cornell University • Studied and experimented with Topic Modeling for CFR Corpus using several tools • Handled scaling problem for CFR corpus by pre-processing like lemmatization, etc	Jan. 2015 - May. 2015
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- Used metadata from CFR and FR corpus to capture evolution of a topic over time
- Experimented with incremental modeling and phrase extraction using Mallet
- Carried out an in depth analysis in order to understand the results

Computing a statistical description of 3-D structure of nano-scale biological objects

Oct. 2014 - Dec. 2014

Prof. Peter Charles Doerschuk, Cornell University

- Helped providing python conversion of MATLAB equivalent of fmincon, which solves nonlinear programming problems, fundamentally computing the location of the minimum value of a user-provided function
- Applied MATLAB version of the project to example problems to determine the input values for each of the project's functions and the returned values.
- Wrote unit test cases in python to perform extensive testing for the python version of the project

Question Answering System

Mar. 2015 - Apr. 2015

Cornell University

- Built a QA system which could answer Who, When, Where and What questions with 21% accuracy
- Experimented NLTK for tokenizing , Stanford Core NLP for POS tagging and NER and synsets from WordNet for query reformulation
- Implemented Rocchio algorithm based on relevance feedback to improve retrieval of relevant text containing answer to the concerned question

Mini Search Engine

Oct 2014 - Dec 2014

Cornell University

- Built a search engine for more than 5000 documents and created a direct index for measuring similarity with 50+ queries.
- Experimented with various similarity measures based on the smart notation and compared their mean average precision.
- Experimented with clustering and relevance feedback techniques to study their effects on ranking of results.

Roll Of Honor Website

Oct 2014 - Dec 2014

Cornell University

- Created a website to maintain a digital war memorial to honor Cornells war veterans for Cornells Carl A. Kroch Library

Sound Source Localization

Sep. 2011 - Dec. 2011

Massachusetts Institute of Technology

Prof. James R Glass, Spoken Language System Group, CSAIL

- Studied various techniques being used for 2-D acoustic localization
- Implemented GCC-PHAT method to localize sound using two microphones - MATLAB

Voice Interface Design

Sep. 2011 - Dec. 2011

Massachusetts Institute of Technology

- Designed, implemented and presented a voice interface on an existing speech recognition system, which provides users a live voice tour of MIT
- Designed, implemented and presented another voice interface on an existing speech recognition system, which provides users with an interactive personal medical assistant

RESEARCH

Cornell University, Ithaca, NY

Dec 2014 Jan 2015

Research Assistant

Prof. Diane Burton

- Automating the process of information retrieval from PDF Forms JAVA

ACHIEVEMENTS AND AWARDS

- Undergraduate **Gold Medalist**, Awarded by **The Prime Minister of India**, Mr. Narendra Modi
- Undergraduate **Toppers Scholarship, Perfect GPA of 10.0/10.0 Award** for 3rd, 6th and 8th semesters

COMPUTER SKILLS

Programming Languages : Java, Python, C, C++, MATLAB, Objective C, Swift, ABAP, HANA

Web Development: HTML, PHP, SAP UI5, JavaScript, Java Servlet, CSS, Adobe Photoshop, Drupal

NLP Tools : Maui, RAKE, Mallet, NLTK, Stanford Core NLP, Lucene

Expertise in GNU Linux

EXTRA-CURRICULAR ACTIVITIES

- Completed Training in Wild Life Protection And Environment Preservation conducted by Forest Department, North Kheri, U.P.
- Volunteered in three Community Service Events in SAP Labs held to serve HIV positive Children in Catholic Charity Houses in Bangalore.
- Volunteered for Product Innovation Day Event in SAP Labs, Bangalore.
- Participated in Hadoop Tech Talk conducted at Exebit 2012, IIT Madras.
- Participated in Ethical Hacking and Information Security Workshop by Kyrion Technologies.
- Organized Paper Presentation event held at Infoyez11, SRM University, Chennai.