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SWABHA SWAYAMDIPTA

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EMPLOYMENT

Software Engineering Intern — **Google Inc.** — **May 2012 – August 2012**

- Built a pipeline (golden set extraction and evaluation metric) for the evaluation of hierarchical search quality in Google TV.
- Standardized the existing tool used for non-hierarchical search quality evaluation.

Software Engineer — **Oracle Server Technology** — **June 2010-July 2011**

- Implemented the Unified Messaging System User Preference Application, which sends messages to users in specified channels according to their preference.
- Verified the functionality of Java Management Extension MBeans for multiple components across WebLogic and Websphere environments.

Software Engineering Intern — **Microsoft Corporation** — **Summer 2009**

Segmentation Authorization Management Initiative

- Created the search functionality for Microsoft Customer database, reflecting hierarchical arrangement of customers.
- Verified Windows Presentation Foundation technology as a Proof of Concept for further development.

Campus Ambassador — **Sun Microsystems** — **Fall 2008 – Spring 2009**

- Organized multiple Solaris Installation Fests and NetBeans Workshops.
- Taught "Introduction to Java"- lecture series for freshers and sophomores.

EDUCATION

New York, NY — **Columbia University** — **Fall 2011 – Present**

- Pursuing M.S. in Computer Science, with specialization in Machine Learning. GPA(upto 2nd semester): 3.9
- *Graduate Research Assistant* at the Center for Computational Learning Systems.
- Coursework: Analysis of Algorithms, Natural Language Processing, Machine Learning, Statistical Machine Translation, Data Mining, Machine Learning in NLP.

Calicut, India — **National Institute of Technology** — **Fall 2006-Spring 2010**

- Bachelor of Technology in Computer Science and Engineering, April 2010. GPA: 8.72/10
- Coursework: Data Structures and Algorithms, Database Management Systems, Computer Networks, Artificial Intelligence, Operating Systems

PUBLICATIONS

- Swabha Swayamdipta and Owen Rambow. IEEE Sixth International Conference on Semantic Computing 2012, The Pursuit of Power and its Manifestation in Written Dialog.

TECHNICAL EXPERIENCE

Projects

- **Social Constructs** (2011-12). Prediction of power and influence in social groups through linguistic analysis by determining how language usage correlates to social phenomena. Java, Python
- **Topic Influence in Twitter** (2012). Prediction of influence between users in the Twitter hierarchy, when the users have tweeted on the same topic. MATLAB, Python.
- **Persian-English Machine Translator** (2011). Baseline translation system augmented with improved word alignment through morphological analysis. Linux Shell Scripting, Moses
- **Plagiarism Detector** (2009-2010). Detection of plagiarism in student answer scripts by lexical and semantic analyses. Java, WordNet

Languages and Technologies

- C; Java; Python; MATLAB; J2EE; C# .NET; MySQL; HTML; CSS;
- Linux, Visual Studio; Microsoft SQL Server; Eclipse; HTMLUnit; JUnit; Ant