

Sandesh Singh

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🌐 <http://sandesh247.com>

EDUCATION

Master's in Computer Science

Expected 2012

GPA 4.0, Stony Brook University

Bachelor of Engineering (Computers)

Jun 2006

First Class, Vidyavardhini College of Engineering and Technology

SKILLS

Languages

- proficient in C#, Python, Java, Javascript, Bash
- working experience with C++, Ruby

Data

- classification and mining with Weka, numpy, NLTK, learning R
- data mining on Microsoft Analysis Services with MDX/DMX, SQL

Frameworks

- OR Mapping frameworks (NHibernate, Microsoft Entity Framework, Gentle.Net)
- Web frameworks (Google AppEngine, ASP.Net, Django, Google AJAX API, jQuery)

ACADEMIC PROJECTS

- implemented and tested new **text classification algorithms** in the Applied Logic Lab.
- worked on a **classifier to detect vandal edits** on wikipedia (84% precision, 89% recall)
- developed a system to **recognize the language of a speaker from audio** (9 languages, 72% precision, 73% recall); currently working under Prof. Steven Skiena towards improving and extending the system
- developed the parser, query execution engine and GUI for **The Distributed DataBase (TDDB)**, a true distributed database built from the ground up, which conforms to the SQL-92 syntax
- developed a highly-available, concurrent mail server in Java, extensible through web-services
- conducted workshops & seminars on various topics, including databases, programming and graphics

CAREER

Technical Leader

Neorithm Technologies, Oct 2008 - July 2010

- core team member since inception, I **led the technology R&D** across the company's product lines
- built a rule engine to filter 'interesting' transactions in a bank, which led to an **anti money laundering** product currently deployed in a bank
- developed a **business intelligence** product, where a financial institutions' relational data is imported into a SSAS cube, and analyzed in a pivot table built in Flex
- developed a C# API to emulate a **versioned filesystem**, with pluggable storage support; in particular, a file-system and a relational database back-ends are ready
- oversaw the development of a **loan origination system**, where potential customers were identified and clustered based on various financial, demographic and personal parameters

Senior Software Engineer

Finacus Solutions, Nov 2007 - Aug 2008

- developed an **enterprise application development framework**, consisting of workflows, an ORM framework, message queues; and code generators for an ASP.Net based UI
- assisted in the development of an **ATM switch**, supporting the Diebold and NCR protocols
- played a major role in improving the **usability** of web applications, using JavaScript to bring desktop-like features to web applications

Subject Matter Expert

Amdocs Development Center (India), Aug 2006 - Oct 2007

- worked on extending the functionality of Amdocs' '**Rater**' product for two successive versions, writing **shell scripts and C++ daemons** on Unix (Sun and AIX) systems
- traveled to Israel for testing, and to Russia for production support of 'Rater' deployment

EXTRACURRICULAR ACTIVITIES

- won many programming contests in the Mumbai University campus during engineering studies
- listen to Hans Zimmer, ColdPlay, Amanda Palmer; read P.G. Wodehouse, John Grisham; play cricket

LINKS

- Code samples: <http://github.com/sandesh247>; <http://code.google.com/u/sandesh247>
- Blog: <http://sandesh247.com/journal>