

Sandesh Singh

+1 347-687-7748

me@sandesh247.com

http://sandesh247.com

EDUCATION

Master's in Computer Science

Graduating 2012

Stony Brook University

- **Courses** Algorithms (A), Natural Language Processing (A), Computational Biology (A)
- 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)
- Implemented and tested new text classification algorithms in the Applied Logic Lab.

Bachelor of Engineering (Computers)

Jul 2002 - Jun 2006

First Class, Vidyavardhini College of Engineering and Technology

- 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

SKILLS

Languages

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

Frameworks

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

Data

- classification and mining with Weka, numpy
- data mining on Microsoft Analysis Services with MDX/DMX, SQL, ORM development

CAREER

Technical Leader

Neorithm Technologies, Oct 2008 - July 2010

- one of the **founders of this startup**, I led the technology R&D across the company's product lines
- developed 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
- undertook **consulting assignments** on behalf of neorithm for performance optimization

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**, which could be theoretically support any ATM protocol; in particular, the Diebold and NCR protocols were developed
- 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 Centre (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
- travelled 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, Beatles, Dido; read P.G. Wodehouse, John Grisham; play cricket