Naman Aggarwal

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Education

National University of Singapore, Singapore (GPA – 4.5/5)　　　　　　**Jan 2014 – Dec 2014**
Master of Computing (Computer Science)
Courses: *Distributed Databases, System Security, Business Intelligent Systems, Cloud Computing, Web Security, Distributed Systems, Theoretical Foundations in Multimedia*

Maharaja Surajmal Institute of Technology, India (Score - 81.61%)　　　　**Aug 2007 – May 2011**
Bachelors of Technology (Computer Science)
Courses: *Data Structures & Algorithms, Relational Databases, Operating Systems, Data Mining*

Computing Skills

Languages: JavaScript, Java, PHP, MySQL, C++
Libraries/Framework: jQuery/jQuery Mobile, NodeJS, Hadoop, HBase

Professional Experience

VISA Inc., Singapore　　　　　　　　**Visa Labs Technology Intern | May 2014 – Aug 2014**
- Worked in Visa Labs on Distributed and Scalable Databases and Big Data.
- Did a standard Proof of Concept for using a Distributed Graph Database over Hadoop 2.x.
- Automated Proof of Concept deployment in Amazon Web Services.
- Automated Parsing and Bulk Data Loading of recent census data sets.
- Developed various Use Cases including geographical distributions and heat maps.

Mettl, Gurgaon, India　　　　　　　　　**Software Engineer | Mar 2013 – Dec 2013**
- Development of tutrr.com, from Java and Postgresql backend to writing HTML, CSS and JavaScript. First release was a full revamp of website.
- UI for native android application for tutrr platform. It was very well received by the prospective clients and hence led to a full scale development.
- Hacking mathquill latex JavaScript library to suit the needs of tutrr platform.
- Development of new types of editors (such as for prime factorization and long division) to cater more types of mathematical problems.

Tally Solutions Pvt Ltd, Bangalore, India　　　**Software Engineer (R & D) | Jul 2011 – Feb 2013**
- Designed (UI and Database Schema) and developed new and interactive MIS reports in PHP with increased performance of up to 150%.
- Made the sales report real time using NodeJS and changing the schema. Appreciated for introducing new technologies in the company.
- Designed and developed the first mobile application using HTML5 and PhoneGap framework. Application was used to assign and monitor the sales target to channel partners. This led to formation of a dedicated mobile team in the company.
- Initiated the use of Hadoop in the company. The technology was used to process large number of small XML files to get the approximate usage of each of the feature in the Tally application.
- Single handily developed an interactive web application to capture geographical distribution of current and potential sales data. This was developed in PHP and used Google Maps JavaScript API. It received a personal appreciation from Bharat Goenka (MD, Tally Solutions).

Defence Research and Development, New Delhi, India   **Intern | Jun 2010 – Jul 2010**

- Worked in centre for fire, explosives and environmental safety research labs.
- Developed a computer program for Data Analysis and Burn Injury Prediction. This helped the organisation to create better suits for fire fighters and defence forces.

Academic Projects

- **Distributed Maze Game:** Developed in Java using RMI a multiplayer client-server game. Enhanced it to support peer to peer capabilities.
- **Elgg Social Network Video Chat Plugin:** Created a plugin for Elgg social network framework to support video chat. This was developed using NodeJS, WebRTC and Web sockets. Code is available at – https://github.com/namaggarwal/elgg.
- **Music manager and player:** Developed in C#.Net this uses basic machine learning capabilities to play songs based on users taste.
- **2D platformer game:** Developed using Microsoft XNA framework and C#. This received highest appreciation in college because of its creativity.
- **Social networking website:** Developed in C# and ASP.Net this was presented during undergraduate studies.

Personal Projects

- **NFC Payment App:** A mobile app written in HTML5 and JavaScript on PhoneGap platform to accept and make payments. This was a part of VISA business case challenge. Code is available at - https://github.com/namaggarwal/cardApp.
- **Searchathon for Facebook Hackathon:** Game developed as a part of Facebook Hackathon. This combines Google maps API and Facebook API and makes your Facebook friends a part of game. Code is available at - https://github.com/namaggarwal/searchAThon.
- **Ebargain:** A website developed in PHP to automatically send notification when a price of product reaches the target price set by the user. Code is available at - https://github.com/namaggarwal/ebargain.
- **AutoHadoop:** Bash scripts to automatically deploy Hadoop over a cluster. Code is available at - https://github.com/namaggarwal/autohadoop.

Personal Interests

- I love to have long conversations with people on diverse topics.
- I like to read books, A Song of Ice and Fire has been my favourite read till now.
- Active volunteer for NUS I. Care to help international students feel home at National University of Singapore.
- I try to volunteer in cultural events. I have volunteered as Accreditation Assistant in XIX COMMONWEALTH GAMES, New Delhi 2010. I have also participated in activities organised by an NGO for child rights – CRY.