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EDUCATION

University at Buffalo, The State University of New York   GPA 3.41/4   **Feb 2017**
Masters of Science, Computer Science Engineering
Punjabi University, India   GPA 8.20/10   **July 2012**
Bachelors of Technology, Electronics and Communication Engineering

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, C, C++, C#, Embedded C, ASP.Net
Operating Systems: Windows, Macintosh, UNIX
Web Technologies: Solr, HTML/HTML 5, XML, CSS3
Other tools: Android Studio, Eclipse,Xcode, MATLAB, Wireshark, MySQL, Websphere 6.1, HP QC, Apache Tomcat

ACADEMIC PROJECTS

Multi-Client Chat and File Sharing System   **Feb 2016**
- Building a shell-based Multi-Client Chat Application and File Sharing System in C++ that provides features like Client LOGIN and LOGOUT and access tracking and control, Message storage and delivery guarantee, Broadcast messages, File sharing and Client access blocking

Multilingual Tweet Search Engine and Boolean Query Retrieval System   **Sep 2015 – Dec 2015**
- Developed a complete search-based solution in Java for parsing and indexing of a corpus of multilingual tweets (English, German, French and Russian). The model implements faceted search, content tagging and Latent Dirichlet Allocation (LDA) topic modeling using Alchemy API. Developed a front-end interface for the system using AjaxSolr (jQuery), HTML and CSS

Learning to Rank using Linear Regression   **Oct 2015 – Nov 2015**
- Implemented a Linear Regression model by training a regression model using batch method and stochastic descent method on the Microsoft LETOR 4.0 Dataset and analyzed its performance by applying it against a secret set of test data

BrainYard   **Jan 2012 –May 2012**
- An online resource portal developed using Java and associated technologies. The portal is used to store e resources like e books, audio and video files based on registered user login system where users can share resources based on requests and approvals

Password Based Door locking mechanism   **June 2010-Sep 2010**
- Developed a Password based door-locking mechanism using AT89C51 microcontroller, programmed using Embedded C. The entire circuit was designed and implemented on a breadboard and various components were interfaced like an LCD Display, a 10 button numeric password entry and a small motor to represent the door locking mechanism

INDUSTRY EXPERIENCE

Systems Engineer, Infosys Limited, India   **March 2013 – April 2015**
Software developer with over 24 months of experience in the Information Technology sector. Well versed in the complete life cycle of software development. Gained considerable experience in application development on the Eclipse IDE and RAD 7.0. Possess good knowledge and understanding of Software development methodologies (water fall and agile methodology) and tools like Websphere, Tomcat
- Worked on application development and maintenance for two different US based clients- American Express, Boeing for 18 months. Responsibilities included adding enhancements to existing applications and fixings bugs
- Worked as a Business Analyst for 6 months for US based insurance provider, Aetna Inc. Responsibilities included requirement gathering, analysis and auditing of insurance plans for the client

COURSEWORK

- **Undergraduate**: Programming Fundamentals with C, Visual Programming, Database Management Systems, Computer Networks
- **Postgraduate:** Distributed Systems, Modern Networking Concepts, Advanced Crypto and Security, Algorithms Analysis, Computer Security, Information Retrieval, Machine Learning

ACHIEVEMENTS & EXTRA CURRICULARS

- **Most Spirited Team Award at Infosys Limited**: Project Team received the MST Award in my unit for 2 Quarters consecutively and I was given special appreciation for my contributions
- **Co-Founded a startup**, **Morph Edutech** and worked on it for two years during college, gaining significant knowledge and valuable experience of managing a company
- **Co-Founded and headed TEDA**, a Technical Education and Development Association to impart additional practical knowledge to juniors in college
- Headed various committees during college level technical and cultural festivals