Kshitij Mittal

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OBJECTIVE

To get a chance to fulfill my desire to do something out of the box, to exploit my deep interest in the field of computer science and to explore and enhance my skills and talent properly.

EXPERIENCE

Software Engineer @ GrexIt Inc.	Jul 2014 - Present

Roles and Responsibility: Development of various new features for GrexIt and Mailflo apps. Responsibilities, include working on Frontend, backend, quality assurance, and customer support among others.

Tech Stack: JavaScript (Backbone.js), PHP (Laravel), Python, MySQL

Intern @ Pagalguy.com	
Guide: Mr. Sandeep Kalidindi (CTO, Pagalguy.com)	Jan-June, 2014

1. **Android Application Development (Jan-Feb 2014)**: During this period few basic apps and a complete app for a twitter-like site was designed.

2. **Firebase Clone (Feb-April 2014)**: This was the major project of 8th semester. A tool was developed (similar to firebase) using which RealTime & Scalable apps can be developed without having to use or even know about the backend. The data can be saved in and retrieved from the database in JSON format either using REST API or by using the javascript client library.
   Tools and Techniques: Python, Tornado, Redis, MySQL and JavaScript

3. **Elastic search & Kibana (Mar-April 2014)**: Kibana was used over the data of pagalguy.com's to do various kinds of analysis and find out different trends. Elastic search is being deployed in one of the upcoming products for Search feature of the product.

EDUCATION

Year	Examination	University/Board	CGPA/%
2014	B.Tech	IIIT - Allahabad	8.29
2009	Grade 12	CBSE	79.4%
2007	Grade 10	CBSE	84.6%

NOTABLE ACHIEVEMENTS

- Secured an All India Rank 7487 out of approximately 10,65,000 Candidates **(top .7% of the country)** in All India Engineering Entrance Exam (AIEEE), 2010.
- Created and managed a successfully running tech-blog (http://www.techwikasta.com) for WBTS Pvt. Ltd since June 2012. Total number of visits crossed 1 lakh within a year.

AREAS OF INTEREST

- Data-Mining (5th and 6th Semester Projects were based on Data-Mining)
- Software Designing (Projects in 3rd , 4th and 5th semester were based on Software Designing)
- Algorithm Design

ACADEMIC PROJECTS

Analysis of Effects of various factors on Workday Loss in coal mine Industry Incidents	
Supervisor: Dr. Sonali Agarwal, IIIT Allahabad	Jan-June, 2013

The aim of the project was to develop a relationship between incidents in underground coal mining industry and various factors responsible for it. In order to statistically analyze the data, we used three different techniques: 1) **Regression Analysis (Ordinary Multivariate)** 2) **Neural Networks Analysis** and 3) **Fuzzy Logic modeling**.
We were able to get some important results from the analysis, using which we suggest measures to help reducing the incidents in the coal mine industry.

Responsibility : Design of methodology and Implementation of Algorithms on the given dataset. Comparison and Analysis of Results
Tools and Techniques : MATLAB, Regression Analysis, Artificial Neural Networks, Fuzzy Logic Modelling
Team Members : Kshitij Mittal and Shivendra Soni

Socially Augmented Hybrid Recommender System	
Supervisor: Dr. Sonali Agarwal, IIIT Allahabad	Jul-Nov, 2012

The aim of this project was to design a '**social network based recommender system'** for e-commerce websites that gives recommendations influenced by user's social circle as well (not just based on the user's purchase history only). We built it with the aim **to provide more precise recommendations** than the existing recommendation-engines.

Responsibility : Research, Design and Implementation of the Recommendation Engine
Tools and Techniques : PHP, MySQL 4, Data-Mining, Concepts of Probability.
Team Members : Kshitij Mittal, Prateek Porwal and Shivendra Soni

Lost Mail Reconciliation System

Supervisor: Prof. O.P. Vyas, IIIT Allahabad   Jan-May, 2012

This was made with the aim to speed up the Lost Mail Reconciliation process by the use of this computer program, if used.

Responsibility   : To design one-third of the Modules
Tools and Techniques   : Core Java
Team Members   : Kshitij Mittal, Gagan Gupta and Anshul Jain

Library Management System

Supervisor: Prof. O.P. Vyas, IIIT Allahabad   Jul-Nov, 2011

This project was to design a fully-fledged **Library Management System with exhaustive error handling**. This happened to be the one-of-the-best projects of the batch.

Responsibility   : Lead Designer and Programmer
Tools and Techniques   : HTML, CSS, JavaScript, AJAX, PHP, jQuery and MySQL 4
Team Members   : Kshitij Mittal, Gagan Gupta, Anshul Jain and Dinesh Suthar

Other PROJECTS

Social Music Site as a Freelancer

Guide: Mr. Kushagra Mittal (Founder of WBTS Pvt. Ltd.)   May - Jun, 2012

This upcoming **social music site** rates songs based on ratings of its users and 10 others popular sites including Youtube.com, Last.fm, Spotify.com, Soundcloud.com etc. in order to help its users choose the songs of their choice. Designing and implementing algorithms for track-ratings, artist-ratings, user-ratings, and track-similarity index was the main responsibility of the project undertaken.

Responsibility   : Algorithm Design and implementation
Tools and Techniques   : PHP & various Web Designing Front-end Technologies, MySQL 4 and Algorithm Design.
Team Members   : Kshitij Mittal

SKILLS

Programming Languages   : Python, PHP, JavaScript, HTML5, CSS3, Java, C, C++
Frameworks used   : Backbone.js, Flask, Tornado, Laravel
Databases   : MySQL, Redis, MongoDB
Programming Environments   : vim, Sublime Text, Eclipse, NetBeans
Platforms Used   : Windows, Linux, OS X

EXTRA CURRICULAR ACTIVITIES

- Participated in 5th Science Conclave (Supported by MHRD & DST, GoI).
- Volunteered for Prayaas (a IIIT student initiative for education of under-privileged children).
- Manage Techwikasta.com as Chief-Editor.

HOBBIES

Apart from Programming and designing, I like to write technical and personal articles for my blogs. I am also fond of reading books & blogs and I surf internet a lot as I believe it is the biggest reservoir of information. I love to play chess and football & lawn tennis are the outdoor sports I enjoy.

I hereby declare that the above information is true to best of my knowledge and I shall be liable for the same.

Kshitij Mitttal