

Tushar Mathur

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EDUCATION

University of Pune, B.E. Information Technology

May 2006 – May 2010

Attained the highest term work in the batch, for computer projects. Developed a new version of games such as *Tetris*, *Tic Tac Toe*, *Sudoku* and softwares such as *a Text Editor with Syntax Highlighting and Autocompletion*, *an LZW File Compressor*, *a Database Management System*, and *Web based Blogging Platform*.

EXPERIENCE

Software Developer Applications, **Z.S. Associates**, Pune

Jan 2011 – Jan 2013

Clearing all rounds of interview, which according to *Forbes* and *CNN* are one of the toughest in the industry.

Software Developer Intern, **Indigo Architects**, Pune

Aug 2009 – May 2010

Pursued internship beyond the academic curriculum to enhance web development skills.

PROJECTS

Have worked on multiple projects through the *Full Software Development Life Cycle*. Adhered to *Agile Software Development* and *Scrum* with transcontinental teams.

Forecast Manager – *ZS Associates*

May 2011 – Jan 2013

Investigated ways to refine the application's *Deployment Process* and improved its efficiency by **99%**. Created automation scripts for generating binaries, bulk database migration, updating scheduled tasks and setting up environment specific configurations.

Designed and developed core features of the application. Completely migrated the application's GUI to an *MVVM* based architecture. Implemented *Asynchronous Module Definition* pattern for client side Javascript, effectively reducing page load time of the application by almost **80%**.

User Experience Team – *ZS Associates*

Oct 2012 – Jan 2013

Worked on harmonizing the user interface across the Javelin suite. Developed fluidic web layouts and customizable *jQuery* plugins that could be integrated into the application directly from the *CDN*.

ZS Data Integration Service – *ZS Associates*

Jan 2011 – May 2011

Evaluated various cloud based data integration tools such as *Boomi* and *Pervasive* to integrate *Javelin Data Manager* with *Salesforce*. Reported a major bug in *Boomi* which was inhibiting and negating its evaluation for weeks.

Designed and developed solutions for making *Javelin Data Manager* communicate with *Boomi* using rest based web services. Trained the consulting team on *Boomi Integration* with in-house tools.

Social Networking on Maps – *Undergraduate*

Jan 2010 – Mar 2010

Implemented *Machine Learning* algorithms to recommend friends and places according to one's profile, current location, places been to in the past and his social connections, all in *Real Time*. Worked extensively on *Aesthetics*, *Browser Compatibility* and *Mobile/Tablet portability*.

OPEN SOURCE

Worked on various Open Source softwares to learn more about developing *Desktop*, *Web* and *Native Mobile* applications using only *JavaScript* and *Node.js*. Created applications that have users world wide.

PNR Status: An OSX Chrome Application for Indian Railways that fetches PNR (*Passenger name record*) status in real time and notifies the user when the berth is confirmed.

Html Scraper: Developed a high performance scraper with Node.js to extract data using CSS selectors and saving it into a JSON or a CSV file format.

Multi Threaded Downloader: Developed a library that used *segmented file transfer* technology to enhance bandwidth utilization. It supported auto resuming of downloads from the last transferred byte. Also wrote a console wrapper for it to assist in downloads, and to display download statistics.

Super Cache: A Chrome Extension for developers, which overrides server set caching policies on static resources.

ShareBill: A web application to manage shared expenses, between people. Implemented an algorithm based on heuristics to minimize total number of transfers required to clear debts between people.

Multi Key Dictionary: A Javascript library that provides a more efficient data structure than a multi dimensional array.

Projects contributed to: *wintersmith, step-gh-pages, gisto*

SKILLS

Programming: C#, C/C++, HTML, CSS, Javascript, CoffeeScript, Unix Shell, PowerShell.

Softwares: .Net, Git, Subversion, TeamCity, Node.js, Grunt.js, jQuery, Knockout.js Visual Studio, Sublime Text, SQL Server, Boomi, Pervasive cloud, MVVM, MVC, ORM, Entity Framework, Windows, Mac OSX.

ACHIEVEMENTS

- Won the **first prize** in a national level programming contest at *Bharati Vidyapeeth College of Engineering*.
- Received **sponsorship** from **Calsoft Inc.** for the under graduate project *Social Networking on Maps*.