

# Gaurang K. Mhatre

## Education

- **Sardar Patel Institute of Technology (Mumbai, Maharashtra), 2011-2015**  
Bachelor of Computer Engineering (67.14%)
- **Bhausaheb Vartak Polytechnic (Vasai, Maharashtra), 2008-2011**  
Diploma in Computer Technology (91.98%)

## Academic Awards and Achievements:

- Received **Sir Ratan Tata Scholarship** of INR 25,000 for academic excellence in the Final year of Diploma, 2011.
- Scored **Distinction** in subjects like *Data Warehouse & Mining, Analysis of Algorithm & Design, Data Structure & Files, Computer Networks, Computer Graphics, Web Engineering, Digital Logic Design & Application, Multimedia System Design* in Undergraduate course.

## Research Papers

- **Spammer Detection by extracting Message Parameters from Spam Emails, 2013**  
Published in *International Journal for Computer Application (IJCA)* (Volume 78-Number 10), this paper highlights a way to identify the origin of spam emails by use clustering algorithms.
- **Sound Mixing and Recording on Mobile Devices, 2014**  
A paper published in *International Journal for Computer Application (IJCA)* (Volume 98-Number 7) Studies Different parameters impacting audio quality in mobile devices.

## Certification and Training

- Oracle Certified Java SE6 Programmer (OCJP), 2011.
- Coursera: Computer Networks by David Wetherall(University of Washington), 2014.
- Oracle 10g Fundamental-1 and Fundamental-2 workforce Development Program, 2011.

## Seminars Delivered

- **SCATS: The benchmark in urban traffic control (Semester 5), 2012**  
Summary: Seminar was about current traffic and congestion issues in major cities in India. And how SCATS (Sydney Coordinated Adaptive Traffic System) could help us mitigate these problems.
- **UML Diagrams (Semester 4), 2012**  
Summary: This seminar was delivered at Sardar Patel Institute of Technology. Was about the criticality of UML diagram in development planning on the high level and Ways to draw them.
- **Cloud Computing (Semester 3), 2011**  
Summary: This seminar was delivered at Sardar Patel Institute of Technology. It was about the architectural and service aspect of Cloud.

## Seminars & Workshops Attended

- **Raspberry Pi, 2014**  
The Workshop was about how to use Raspberry Pi with minimum hardware utilities. This 10-hour workshop was focused on booting Raspberry pi with Raspbian OS and connecting to it with putty.
- **VB.net and ADO.net, 2014**  
The Three-day workshop was taken by H.O.D Dhananjay Kalbande. The aim of the workshop was to build attractive and functional applications with VB.net.
- **Ethical Hacking and Information Security, 2011**  
Organized by IIT-Kanpur, Various concepts such as Email attacks, System attacks, Trojans, Web site attacks, Wireless Router attacks, Mobile hacks and Countermeasures of hacking were covered in the two-day workshop.

## Skills

- **Programming Languages:** C#, ASP.Net, Java, Python, C, C++, VB.NET, Assembly
- **Web Technologies:** AngularJS 1.4, JavaScript, Bootstrap, HTML, CSS, PHP, WordPress
- **Web Servers:** Internet Information Services (IIS), Apache
- **Mobile Technologies:** Android, J2ME
- **Databases:** MS SQL Server 05/08, MySQL, Oracle 10g, MS Access
- **Microsoft based services:** Windows Entity Framework, WCF, WPF, SSIS, SSRS
- **Libraries worked with:** Pandas-Data analysis tools for Python, D3.JS JavaScript libraries
- **Operating System:** Windows (XP/vista/7/8), Linux (Fedora/Ubuntu/Backtrack 5), Raspbian
- **Application Softwares:** Visual Studio 05/08/2012/2013, SQL Server 05, N-Unit, Photoshop
- **Simulators:** ExtendSim 8

## Academic Projects

- **SoundShare: Music recording and Sharing (Final Year Project), 2014**  
Karaoke with voice recorder build for Android devices that has cloud support with SoundCloud API and background audio files retrieval support with the YouTube API.  
**My Role:** Lead team of 2 to build this application. Drafted project plan and worked on API end. Also wrote multithreading module of Karaoke and recorder engine.
- **Cognitive Functioning Test: 2013**  
Games designed in Java to understand Visual Memory, Short Term Memory and reasoning of people who cannot read or write. Games were kept very simple and easy to understand. Also, Application was lightweight by design.  
**My Role:** Worked with a Final year student on defining the Application structure and designed three games out of seven.
- **Sports Event Scheduler, 2012**  
Implemented for organizing and managing statistical data in 'Cricket' tournaments.  
**My Role:** Involved in Development planning, writing stored procedures, DDL layer as well as the processing engine, also writing swing based User Interface.
- **Secondhand Books Retail Store, 2012**  
Website wrote in PHP for students to resell used copies of textbooks.  
**My Role:** Involved in requirement gathering, Development planning, writing DDL layer as well as API for the site, was involved in coding PHP based UI.
- **Remote Monitoring System, 2011**  
Surveillance tool for monitoring client machines on LAN with TCP connections.  
**My Role:** Work on server engine and connection mechanism for handling the load on the server.

## Extra Curricular Achievements

- Organized 'Cricket Share Market' event at 'Nirman', technical festival of undergraduate institute, 2011.

## Membership of Societies

- CSI (Computer Society of India): 2011-2014
- FACE (Forum for Aspiring Computer Engineers): 2011-2014

## Social Service

- Volunteering for 'Arham Yuva Group' from September 2013.
- Disaster Management Volunteer for performing elementary level disaster mitigation duties in Vasai with Disaster Management and Research Foundation (DiMaRF).
- Regular blood donor.

## Work Experience

- **Company: Gravitas (2014-2015)**

Working as **Software Engineer** for one year, nine months. Primary role is to be a part of software Co-Sourcing team and understand the client needs and provide logically & programmatically accurate solution in minimum time.

## Projects at Gravitas

- **Market Data Service, January 2015**

Application is an entry point for data in the client's environment. Market Data receives data from Bloomberg, Paladyne and Charles Rivers Blotter.

**My Role:** Involved building Security Master Reconciliation Engine on top of Market Data Service.

- **The Gravitas platform - Reconciliation Engine, 2015**

Engine is built for Position and Security reconciliation with flexible SQL based feed-config settings.

**My Role:** Lead a team of three to setup fifty feeds in less than two months. Also hired two interns and gave them handovers. Contributed to streamline the configuration process.

- **Importer Service, 2014-2015**

Importer service receives data from Stock Brokers daily. Application does Extract, Transform and Load operation (ETL) on excel, CSV and zip files.

**My Role:** Involved with setting up more than thirty new extracts across all the brokers and adding Logger to the application.

- **Gateway Service, 2014-2015**

Is a WCF Interface between Sungard VPM, Importer Service, Market Data Service with Client's in-house applications and Softwares.

**My Role:** Involved with improving performance of the Service, Worked on integrating new endpoints coming from Importer as well as Market Data Service, Writing Test Cases and Client Support for the application

- **Operation Portal, 2015**

Angular JS based website for scheduling and generating Python based reports. Also, the application provides data entry interface for Factsheets as well as fund performance reports.

**My Role:** Designed the Application. Wrote Model as well as API for the application. Designed the User interface and developed it with one other engineer. Was responsible for end-to-end product delivery.

- **WCF Based Reports, 2014-2015**

Also worked on Windows Communication Foundation based scheduled Reports such as New Security Report, Commodity Pool Operations Report, Over the counter Pricing Report, Rate Spread Report, Swap Allocation Report and Days to Long-term Report.

- **SSRS Reports, 2014-2015**

Various departments across Hedge fund uses SSRS Reports extensively. I was responsible for administering the SSRS Server, Creating new reports and scheduling them.

## Hobbies and Interests

- Cycling, Swimming and Traveling.