

# Girish Sharma

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## Contact Information

Address: DA – 376, Shalimar Bagh, New Delhi, India – 110088  
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- Academic Profile** **Bachelor in Technology (Honours)** in Civil Engineering (July 2008 – May 2012)  
Indian Institute of Technology, Kharagpur
- CGPA of 8.38 out of 10.0 at the end of 8 semesters.
  - Department rank 2 out of 55 students at the end of 8 semesters.
- Higher Secondary Education, N.C. Jindal Public School (March 2006 – April 2008)
- Secured 91.6% in CBSE Exam.
- Secondary Education, N.C. Jindal Public School, 2006 (March 2004 – April 2006)
- Secured 93.0% in CBSE Exam.

## Research & Projects

### **Bachelor's Thesis** (July 2008 – May 2012)

#### **Nonlinear dynamic analysis of 2D steel frames on GPU using CUDA**

- Under Prof. Baidurya Bhattacharya, Civil Engineering Dept., IIT Kharagpur
- Developed a parallel Gauss-Jordan Algorithm to compute Matrix Inversion in linear time.
- Computed non-linear dynamic 2D frame analyses in linear time with the help of the above algorithm.

#### **Publications from this research:**

- Sharma, G., Agarwala, A., and Bhattacharya, B. "A Fast Parallel Gauss Jordan Algorithm for Matrix Inversion using CUDA" Computers & Structures, Elsevier (final stages of review)
- Bhattacharya, M., Sharma, G. and Bhattacharya, B. "Non linear dynamic analysis of 2D steel moment frames on GPU," Engineering Structures (final stages of submission).

### **Firefox and Developer Tools** (November 2011 – present)

#### **Independent contributor for more than 1 year**

- Provided patches to more than 38 bugs till date involving Inspector, Web Console, Source Editor, Scratchpad and GCLI.
- Volunteer Add-on Reviewer since April 2012. Reviewed more than 460 add-ons till date.
- Author of 8 Firefox add-ons.

### **Google Summer of Code under Mozilla** (May 2012 – August 2012)

#### **Firefox Developer Tool, Graphical Timeline of Events**

- Successfully completed under Panagiotis Astithas, Software Engineer, Mozilla.
- Developed a new Developer Tool to visually inspect and debug events occurring in the browser, in real time.
- Final deliverable included an add-on, which can be installed to use the developer tool.

### **Select Firefox Add-ons**

#### **Location Bar Enhancer**

- Transforms the location bar into a breadcrumb hierarchy allowing users to easily navigate through web page levels.

#### **User Style Manager**

- Easily edit, create and manage your user styles using this powerful and feature complete restart-less add-on.

Other add-ons can be found at <https://addons.mozilla.org/en-US/firefox/user/5485329/>

## Industrial Experience

### **Innovations Lab, [24]7 Inc., Bangalore, India** (July 2012 – Present)

- Member of Technical Staff, Product Engineering Team.
- Working on vast variety of languages and tools including JAVA, JavaScript and GWT.

**Technical Skills****Programming Languages**

- JavaScript, HTML, CSS, PHP, AJAX, MySQL.
- C/C++, C#, Java, CUDA C, Visual BASIC, MATLAB, PROLOG, LISP.

**Applications**

- Microsoft Visual Studio 2010, Eclipse, Photoshop, Microsoft Office (Word, Excel, PowerPoint).
- AutoDesk Revit Architecture, AutoDesk AutoCAD, STAAD Pro, Abaqus.

**Relevant Courses Taken**

Programming and Data Structures & Laboratory, Artificial Intelligence & Laboratory, Computer Software, Computer Laboratory and Basic Electronics & Laboratory.

**Extra-Curricular Activities****XANTS, Kshitij**

(December 2009)

- Secured third position in an Ant Colony Based optimization and simulation competition held at a national level in Asia's largest Techno-Management festival – Kshitij.

**Programming Head of Robotix Winter Workshop**

(December 2009)

- Taught and guided a team of 10 First years, to develop a full-fledged algorithm for Ant Colony Optimization.

**RoboCup 2009**

(July 2009 – September 2009)

- Part of RoboCup Team 2009, under Technology Robotix Society, IIT Kharagpur, and developed a Path Finder Algorithm and its GUI based on modified Potential Field Theory.