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¹ http://hargup.github.io

¹ http://github.com/hargup/

Harsh Gupta

Education

2012–2017 Master of Science, Bachelor of Science | Indian Institute of Technology Kharagpur Mathematics & Computing - 8.06/10 GPA

Work Experience

Sept 2013- Open Source Contributor | SymPy: A pure Python Compute Algebra System

Present Fixed the evaluation of ImageSet for intervals, wrote an inequality solver, added as_set method for bool and relationals and wrote a Set Difference class. I also made an attempt of implement symbolic Interval Arithmetic which was taken up by Matthew Rocklin as a part of generalised Set Expressions.

May Google Summer of Code Student | SymPy: A pure Python Compute Algebra

2014–Sept System

2014 Rewrote symbolic solvers for Algebraic equations. The new solvers provides a clear input and output interface, removes inconsistency between real and complex solvers and supports infinite solutions.

Oct 2013– **Team Member** | AGV IIT KGP: Autonomous Ground Vehicle

Present Implemented basic motion planning algorithms and basic computer vision system. AGV IIT KGP is a research group at IIT Kharagpur which participated in Intelligent Ground Vehicle Competition(IGVC) 2014 held at Michigan we are planning to participate again in 2015.

May 2013 – Web Developer | Breathe Arts | Mumbai, India

July 2013 Implemented a login system using OpenID and fixed the password recovery system on Breathe Art's ASP.NET online art galleries.

Skills & Expertise

Competent | Python
Proficient | C, Git, Vim

Familiar | C++, MIT Scheme, HTML, CSS, JavaScript, LATEX

Course Work

Mathematics | Linear Algebra, Transform Calculus, Numerical Techniques, Discrete Mathematics, Real Analysis, Partial Differential Equations, Probability and Statistics

Computer Science | Programming and Data Structures, Design and Analysis of Algorithms, Computer Organisation and Architecture, Object Oriented System Design