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③ http://github.com/hargup/

Harsh Gupta

Education

2012–2017 Master of Science, Bachelor of Science | Indian Institute of Technology Kharagpur Mathematics & Computing - 7.93/10 GPA

Work Experience

- Dec 2015- Open Source Contributor | Afra: Genome Annotation for the Masses
 - Present Wrote a test suit for annotation editing functionality on the jasmine framework in JavaScript. Wrote a ruby script to export submission to GFF3 format.
- 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
 - 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
- Sep 2014 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.
- 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.

Course Work

Mathematics | Modern Algebra, Linear Algebra, Transform Calculus, Discrete Mathematics, Real Analysis, Numerical Solution to Ordinary and Partial Differential Equations, 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