Harshul Gandhi

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EDUCATION

Degree/Certificate	Institute/School	CGPA/CAP	Year of Passing
MComp, CSE	National University of Singapore,	3.83	2015
	Singapore		
B Tech, CSE	National Institute of Technology,	8.05	2012
	Bhopal, India		

PUBLICATION

- **Title**: Pixel area based target distance estimating and corresponding target hitting force calculating autonomous robots using single video device; **Conference**: IEEE, CINTI, Hungary, 2011. [URL]
- Title: High utility and low cost microcontroller based data acquisition system for antenna encoders; Conference: SPRINGER, ObCom 2011, VIT, INDIA. [URL]

PROJECTS

Implemented features like invitation to comment, shared comments on a file,		
interactive tour, show online users.		
Designed and developed a system for recommending places to a user based on		
his interest. Interest is derived from user's twitter account data.		
Developed a scanner to detect CSRF injection points in any web site/application		
and created automated selenium scripts at the end.		
Made a 3D view of a 2D scene with the help of a single image of the 2D scene.		
Used OpenCV, Python, Qt framework		
Studied Android for data vulnerabilities. Developed application to run other apps		
in Incognito (protected mode)		
Studied Rapidly exploring random tree algorithm and particle RRT algorithm.		
Implemented p-RRT algorithm in C++		
Developed online mobile custom shop using ASP.NET with C#		
Implemented an algorithm for an autonomous robot, Catabot, that could discern		
the distance of a basket and throw a ball with precision to pass through it		

INTERNSHIP AND TRAINING

.NET using C# - Computer Management Corporation

New Delhi, India, May-July 2010

Studied Language C# and developed many Console Based and Window Based Applications using C# and ADO.NET such
as: School management system, Office Daily Management System, Notepad(Similar as in Windows with same
functionality), Airlines Ticket Booking System

Search Based Planning Algorithm - Center for Artificial Intelligence and Robotics, DRDO

Bangalore, May-July 2011

• Studied several research papers on informed search based path planning algorithms such as A*, D*,D* Lite, Lifelong Planning A*, Anytime Dynamic A* and implemented D* Lite algorithm in C++ language on Robot Operating System.

Software Engineer Intern Quantum Inventions

May 2015 – to date

Developing infrastructure to support web service calls in an automated fashion. Technology: Java

WORK EXPERIENCE

Teaching Assistant

School of Computing, NUS

Jan 2015 - April 2015

- Organized lab sessions for course CS1020E Data structures and algorithms at School of Computing, NUS
- Invigilate in lab tests and grade individual submission by scrutinizing them

Business Technology Associate

ZS Associates

April 2013 – July 2014

- Developed technical system to assist high end designation people in managing large number of sales representative
- Involved in design, development and testing (unit, system, integration) of the one project

• Develop a system for Unified Ordering of all the products and services provided by Verizon

LANGUAGES AND TECHNOLOGIES

- Java, Python, C++, PHP, HTML, ASP.NET, CSS, MySQL
- Eclipse, Microsoft Visual Studio, Microsoft Visio, Microsoft Excel, CMS Joomla, Data Integration Talend

EXTRACURRICULAR ACTIVITIES

- Over all coordinator of Inter NIT Robotics Championship'11, India, a National Level Event.
- Over all coordinated SWARM ROBOTICS workshop organized by IIT Kharagpur and ROBOSOFT SYSTEMS in Bhopal
- Attained 1st place in 'ZStart Academy Team Case Competition' where I solved a business case and presented the same solution.
- SOCIAL: Made an e-stick for blind people using TSOP