ABHIMANYU TAK

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EDUCATION

Dhirubhai Ambani Institute of Information & Communication Technology, Gandhinagar
B.Tech in Information and Communication Technology 2011-15

SKILLS

- *Programming Languages*: C++, C, JavaScript, Python.
- *Web Technologies*: AngularJS, JQuery, HTML5, CSS3, Bootstrap, Grunt.
- *Other*: NodeJS, PostgreSQL, MongoDB, CUDA, Git, Mercurial, Linux.

EXPERIENCE

Web Developer (September'15 - November'16)
SlicePay

- As an early employee, implemented most of the user facing features and wrote scalable, responsive and cross-browser compatible scripts.
- Worked on critical features like orders and payments, similar to e-commerce website.
- Written various server side scripts and APIs for data analytics framework, converting unstructured data to structured data.

Google Summer of Code (May'15 - August'15)
Copyleft Games
Implemented a procedural terrain generation engine for PySoy, an open source cloud gaming engine.

- Implemented a pseudo random height-map generator using Perlin and Simplex Noise.
- Added Tri-Planar texture mapping with improved blending techniques to avoid stretching and overlapping. Also added custom shaders to override the default planar mapping technique.
- Also worked on LOD using quadtrees to improve the rendering performance of large terrains.
- Written C bindings to bridge the libraries written in Genie with the Python APIs.

Internship (May'14 - June'14)
Defence Research & Development Organization
Mentor : Dr. Rajesh Kumar, Sc 'F'
Created a Virtual Scene Simulation Software using Unity3D which simulated a drill done during a hazardous attack to quarantine the hazard zone.

PROJECTS

GPU Based Parallization of Computational Electromagnetics Code (January'15 - April'15)
Mentor : Dr. Bhaskar Chaudhury (Team - 3)
Undertaken as BTech research project, an implementation of a heterogeneous parallel FDTD code was done in CUDA C for investigating propagation of electromagnetic wave in plasma medium.

GPU Based Parallization of BFS (October'14 - November'14)
Mentor : Dr. Bhaskar Chaudhury
Implemented a heterogeneous multithreaded parallel program for Breadth First Search for achieving better performance over serial code.

Hobby Bar (February'14 - April'14)
Mentor : Prof. Pranav Joshi (Team - 10)
Developed a website using Meteor framework for pursuing and discovering new hobbies as part of Software Engineering Course project.

Portable Blood Group Detector (February'14 - April'14)
Mentor : Dr. Amit Sengupta (Team - 5)
Developed a portable system using image processing techniques to detect the blood type of a person which gives quick results and can be installed in any ambulance for emergency purpose.

Database - Real Estate (August'13 - November'13)
Mentor : Dr. Minal Bhise (Team - 2)
Designed a database for Real Estates under DBMS course, derived ER model, mapped to a relational database schema, normalized it and wrote SQL queries on the database.