



Nikhil Agarwal

Roll No. – 11012323

B-Tech. –Mathematics & Computing

Department of Mathematics

Indian Institute of Technology Guwahati

+91-9508509982

n.agarwal@iitg.ernet.in

naagrwal@gmail.com

Degree	Institute	CGPA/%	Years
B-Tech	Indian Institute of Technology Guwahati	8.24	2011 - 2015
Higher Secondary	Nalanda Academy, CBSE Board	79%	2008 - 2010
Secondary	Shree Jain Vidyalaya, West Bengal Board	96.5%	2008

EXPERIENCES

Samsung R&D Institute, Bangalore

May 2014 – July 2014

Venkatachalam V R, Senior Chief Engineer, Graphics

Designed an application for free form deformation of 3D models like cube, sphere, etc. using OpenGL. Control Points were distributed throughout the object's body and deformed points were then calculated using trivariate tensor product Bernstein polynomial. Special emphasis was given on the smoothness of deformation.

PROJECTS

Queueing Systems

Ongoing

N. Selvaraju, Associate Professor, IIT Guwahati

Application of queueing theory to the performance analysis of computer/communication networks.

Basic Database Management System

April 2014

Sanasam Ranbir Singh, Assistant Professor, IIT Guwahati

Designed parser and lexer using Flex and Bison for the basic MySQL commands which after tokenization passes it to lower level functions. These functions then processes the query and returns the corresponding output.

File Transfer Protocol

March 2014

T. Venkatesh, Assistant Professor, IIT Guwahati

A basic FTP client and server was designed in C to implement functions like cd, ls, pwd, gets, puts, mgets, mputs, etc. on both client as well as server side. Error checking mechanisms were implemented so that client and server can communicate easily by sending commands and arguments properly.

TECHNICAL PROFICIENCY

- **Programming languages:** C(Proficient), C++(Proficient), Python(Basic)
- **Statistical Tools:** R, Matlab
- **Operating System:** Linux, Windows
- **Others:** MS office, LaTeX, Visual Studio, MySQL, OpenGL, Flex, Bison

ACHIEVEMENTS

- Secured **ALL India Rank #2749** out of 485,000(among top 0.56%) applicants in IIT-JEE 2011.
- Secured 1st rank in SJV Kolkata in 2008 West Bengal Board Examination out of 280 students

EXTRA CURRICULARS

- Organiser of the event **Robocalypse** during **Techniche 2012**.
- **NSS:** Participated in Tree-plantation, Cleanliness Drive, Cloth Collection Drive, 2011-2012.