

MUDIT GUPTA

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Manor Hall, Lower Clifton Hill, Clifton, Bristol, UK (BS81BU)

EDUCATION

University of Bristol

2014 - 2018
Bristol, United Kingdom

Master of Engineering (MEng.) , Computer Science
Year 1: First Class (**83%**, Cohort Rank : **3**)

Delhi Public School

2012 - 2014
Kalyanpur, Kanpur

All India Senior School Certificate Examination (CBSE)
Grade XII - Science Stream (A Level Equivalent)
Overall average : **93.8%**

Delhi Public School

2010 - 2012
Kalyanpur, Kanpur

All India Secondary School Examination (CBSE)
Grade X (GCSE Equivalent)
Cumulative Grade Point Average(CGPA) : **10/10**

WORK EXPERIENCE

Technology Decoded | Goldman Sachs

November 2015
London, UK

- Selected by Goldman Sachs to attend an insight day at their London office
- Got an insight of various technology roles at GS and how different divisions work together to improve business efficiency
- The event also included an application skills session, technical trainings, panel discussions, interactive workshops, networking with GS employees and a team work exercise based on the theme of problem solving

Undergraduate Teaching Assistant | University of Bristol

October 2015 - Present
Bristol, UK

- Helping with weekly problem classes for the unit Mathematical Methods for Computer Scientists, an introductory math course for first year students
- Chosen for the role due to previous excellent performance in the course
- Working in a fast-paced environment as an efficient team member in order to **manage** a class of **128 students**

Spookfish Innovations | Software Development Intern

June 2015 - August 2015
Bangalore, India

- Spookfish is a software company based in Bangalore and London that specializes in technologies related to *Computer Vision and Image Processing*
- Developed a C++ application for real time person detection in live video using *Histogram of Oriented Gradients (HOG)*
- Worked on *Support Vector Machines (SVM)* for classification of feature sets. Also learnt Machine learning fundamentals in the process.
- Developed a C++ application for high precision measurement of industrial components. It involved usage of *Object Coordinate tracking* (using OpenCV), *Lens Formula* and *RANSAC algorithm*.

PROJECTS

Meeting Room Booking System | Software Product Engineering

- Currently developing a room booking system for the software company **Potato** which will be deployed at their office for booking meeting rooms
- Involves extensive web development along with use of Google Calendar API and REST API

Scotland Yard Remote AI

- Developed a networked **Java** version of classic board game "Scotland Yard" as part of a course *Programming and Algorithms II*
- Further developed an AI for the game which made intensive use of tree data structures and graph algorithms like Floyd Warshall, MiniMax, Alpha-Beta pruning and Scouting
- Multi-Threading and precise mathematical rating functions were used to improve performance

Fast Tube

- Fast Tube is a **Java** Application that allows people to smoothly use *London underground* by efficiently planning their journey
- Used *Dijkstra's algorithm* to find shortest route to destination.
- The app also maps the shortest route and calculates total distance of journey and time taken depending on Peak and Off-Peak hours

Pharmacy Management System | A Level Project

- Developed a **C++** program that provides stock management and billing features to Medical Store owners

SKILLS & QUALIFICATIONS

- **Programming Skills** : Java, C, C++, Haskell, Android Application Development
- **Web Development** : HTML, HTML5, CSS, Javascript
- **Operating Systems** : Windows, Ubuntu, Cent OS Linux, Mac OS X
- **Integrated Development** : Code::Blocks, Microsoft Visual Studio, Eclipse Environments

AWARDS AND ACHIEVEMENTS

- University of Bristol
 - Dean of Engineering International Intern Scholarship **2015**
- Delhi Public School
 - Certificate of Merit and DPS award for academic excellence **2013**
 - Special Memento awarded by City Corporation for outstanding performance in Grade X **2012**
 - Blue Blazer awarded by DPS for excellent academic performance for 5 consecutive years **2006-11**
 - All India Rank 289 in DPS Science and Maths Talent Examination(SMTE) **2010**
 - All India Rank 314 in National Cyber Olympiad 2009 organised by Science Olympiad Foundation (SOF) **2009**

ADDITIONAL SKILLS

- **Application Softwares** : **L^AT_EX**, MS Word, MS Powerpoint, MS Excel
- **Languages** : English, Hindi, French