

# Aman Garg

## PERSONAL DATA

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## EDUCATION

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CURRENT	Bachelor of Technology in INFORMATION TECHNOLOGY <b>Delhi Technological University</b>	GPA: 8.86 / 10.0
MARCH 2016	HBSE Senior School Certificate Examination <b>Govt. Model Senior Secondary School, Jind</b>	PERCENTAGE: 94.40%
MARCH 2014	CBSE All India Secondary School Examination <b>D.A.V. Centenary Public School, Jind</b>	GPA: 10.0 / 10.0

## COURSES UNDERTAKEN

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CURRICULUM: Programming Fundamentals, Data Structures, Object Oriented Programming, Engineering Mathematics, Engineering Analysis & Design, Discrete Structures, Engineering Economics  
ONLINE: Introduction to Computer Science - CS50x (by Harvard University)

## TECHNICAL SKILLS

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PROGRAMMING LANGUAGES: C, C++, Java, Python, PHP  
WEB TECHNOLOGIES: HTML5, CSS, JavaScript, SQL, Node.JS

## FEATURED PROJECT

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### Bookscroll

[| LINK](#)

- A platform for **college students** to **buy** and **sell** books and stationery among themselves
- Removes the commission of shopkeepers, thus **saving money** of both buyers and sellers
- Developed **responsive** platform using Node.JS, JavaScript, SQL, HTML5, CSS and Bootstrap

## PROJECTS

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FALL 2017	<b>ScanBuddy</b> A smart <b>customer service web application</b> with a <b>smart chat-bot</b> that fetches information and history of product directly from the <b>database</b> , thus providing a <b>personalized</b> and more <b>satisfying</b> experience to the user, while solving his problems during customer support.	<a href="#">  LINK</a>
FALL 2017	<b>Game Development</b> Developed some exciting games in C++ including a <b>Combat Simulator</b> , <b>Tic Tac Toe</b> , a <b>Shop and Inventory Simulator</b> and ASCII roguelike, highlighting the use of various concepts of <b>Object Oriented Programming</b> .	<a href="#">  LINK</a>
FALL 2017	<b>Role of Engineers in Improving Life</b> A project highlighting the role of <b>Information Technology</b> in improving the life of people in <b>slums</b> and the role of <b>engineers</b> in <b>sustainable development</b> .	<a href="#">  LINK</a>

SPRING 2017	<b>JAB Gestor</b> <a href="#">  LINK</a> Application to manage the <b>immunization schedule</b> of users and their family members including pets, showing due date for each vaccine. Created database <b>architecture</b> , and developed <b>REST APIs</b> for seamless integration with android app.
FALL 2016	<b>Stocks' Portfolio Management</b> <a href="#">  LINK</a> Implemented a web platform to manage stocks portfolio using <b>HTML, CSS, JS, jQuery, PHP</b> and <b>MySQL</b> . The users can check current stock prices as per Yahoo finance, register & login, <b>buy &amp; sell</b> stocks, add cash to account, and check complete transaction <b>history</b> .
FALL 2016	<b>Forensics - Image Manipulation using Pixels</b> <a href="#">  LINK</a> Wrote a <b>C</b> program to access the pixels of an image (as <b>RGB hexadecimals</b> ) and use them to resize the image. Another program to copy an image using pixels.
FALL 2016	<b>Game of Fifteen</b> <a href="#">  LINK</a> Simulated the Game of Fifteen - a puzzle played on a square 2D board with numbered tiles that slide. Created this game in <b>C</b> for an <b>NxN</b> board.
FALL 2016	<b>Data Encryption</b> <a href="#">  LINK</a> Created <b>C</b> programs to encrypt text using <b>Caesar's Cipher</b> and <b>Vigenere's Cipher</b> . Also, analyzed the security of both algorithms for storing data in encrypted format.
FALL 2016	<b>Web Server</b> <a href="#">  LINK</a> Implemented web server to serve <b>static</b> content (html, jpg etc) and <b>dynamic</b> content (php). Parsed URL to get requested file-type and query parameters. Also, rendered the requested file and stored <b>data-bytes</b> in variables inside the <b>memory</b> .
FALL 2016	<b>User Registration &amp; Login Module</b> <a href="#">  LINK</a> Developed a simple structure to provide smooth user registration and login, which can be used by any application. Implemented using <b>PHP, SQL, jQuery</b> and <b>JSON Web Tokens</b> .
FALL 2016	<b>Pico's Space Game</b> <a href="#">  LINK</a> Designed a space game using <b>Scratch</b> having <b>4 backdrops</b> and <b>3 sprites</b> , each having own scripts of code describing their behaviour according to user input/control. A separate set of scripts controls the sound played, score and lives of the player.
FALL 2016	<b>Survey on Air Pollution &amp; Traffic Frequency</b> <a href="#">  LINK</a> Conducted an <b>environment survey</b> to know the contribution of different people to the <b>quality of air</b> in Delhi. Also calculated the <b>traffic frequency</b> of vehicles (categorized based on fuel type) to infer about the <b>pollution level</b> of each group of vehicles.

## AWARDS AND ACHIEVEMENTS

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- **Master DAV** : Three times in 2007, 2008, 2010 - awarded to the student having **highest total percentage** of marks in the whole school
- **NTSE scholar** : scholarship program funded by the Government of India, 2014
- **Certificate of merit** awarded by CBSE for getting grade **A1** in **all 5** subjects, 2014
- **HSTSE scholar** : **Ranked 35** in Haryana State Talent Search Examination, 2014
- **Certificate of merit** by National Council of Educational Research and Training, 2014
- **Certificate of achievement** felicitated by District Administration for being
  - **district topper** in BSEH 12th science stream, 2016
  - **only candidate** in district selected for NTS Scholarship, 2015
  - **district topper** in National Level Science Talent Search Examination, 2013
- **Certificate of outstanding performance** awarded by BSEH for being in **top 0.1%** candidates in 12th board examinations, 2016