

# 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: 9.03 / 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, Computer Architecture, Algorithm Design & Analysis, Database Management Systems, Operating Systems, Engineering Economics, Engineering Analysis & Design, Engineering Mathematics, Discrete Structures  
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, ReactJS

## INTERNSHIP

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<b>Amazon Inc</b> , Bangalore	SUMMER 2019
<ul style="list-style-type: none"><li>- Developed <b>database &amp; service accessors</b> to fetch static data, implemented <b>business logic</b> to generate custom data, created <b>aggregator &amp; controller</b> to provide that data via <b>API</b> call</li><li>- Provided all information in a user-friendly <b>Vue</b> UI to aid in debugging of errors in <b>Rentals</b> services</li></ul>	
<b>GoParento Technology</b> , Gurgaon	SUMMER 2017
<ul style="list-style-type: none"><li>- Worked as a <b>full-stack</b> developer on admin panel and <b>Content Management System</b> of the website</li><li>- Developed an efficient, user-friendly system for content curators to <b>translate, edit, categorize</b> and <b>tag</b> the articles, questions and rhymes on the platform</li></ul>	

## FEATURED PROJECTS

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<b>Bookscroll</b>	<a href="#">  LINK</a>
<ul style="list-style-type: none"><li>- A platform for <b>college students</b> to <b>buy</b> and <b>sell</b> books and stationery among themselves</li><li>- Removes the commission of shopkeepers, thus <b>saving money</b> of both buyers and sellers</li><li>- Developed <b>responsive</b> platform using Node.JS, JavaScript, SQL, HTML5, CSS and Bootstrap</li></ul>	
<b>Isolation</b>	<a href="#">  LINK</a>
<ul style="list-style-type: none"><li>- An <b>interactive board game</b> in which players have to isolate each other by blocking the tiles</li><li>- Implemented it in <b>ReactJs</b> with horror-themed UI, sounds, offline play, online play via <b>Redis</b>, AI player and other cool features</li></ul>	

## PROJECTS

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SUMMER 2018	<b>Replace That Card</b> (Augmented Reality Marketing Campaign) <a href="#">  LINK</a> Developed an <b>Augmented Reality</b> marketing solution for credit card companies where customers can 'Replace' <b>competitors' cards</b> , and get a better deal by <b>real-time</b> feature comparison.
SPRING 2018	<b>Tic Tac Toe</b> <a href="#">  LINK</a> Implemented Tic Tac Toe game using <b>ReactJS</b> with a cool User Interface. Players can even go <b>back in time</b> and start playing from that move.
FALL 2017	<b>ScanBuddy</b> <a href="#">  LINK</a> 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.
FALL 2017	<b>Game Development</b> <a href="#">  LINK</a> Developed some exciting games in <b>C++</b> including a <b>Combat Simulator</b> , <b>Tic Tac Toe</b> , a <b>Shop and Inventory Simulator</b> and <b>ASCII roguelike</b> , highlighting the use of various concepts of <b>Object Oriented Programming</b> .
FALL 2017	<b>Role of Engineers in Improving Life</b> <a href="#">  LINK</a> A project highlighting the role of <b>Information Technology</b> in improving the life of people in slums and the role of <b>engineers in sustainable development</b> .
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