Ayush Patel

Sophomore, Computer Science
Indian Institute of Technology, Delhi

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Academic Details

Year	Degree	Institute	CGPA/Percentage
2016-2020 (Expected)	B.Tech in Computer Science and Engineering	Indian Institute of Technology Delhi	9.206/10
2016	Class XII, CBSE	O. P. Jindal School, Raigarh (C.G.)	97.8%
2014	Class X, CBSE	O. P. Jindal School, Raigarh (C.G.)	10/10

Scholastic Achievements

- **Top 1%** in the country in **All India Senior School Certificate Examination (AISSCE)**.
- **All India Rank 192** in JEE Mains and **All India Rank 575** in JEE Advanced for admission in IITs among 2 million students.
- Selected as a **KVPY** Scholar under 'Kishore Vaigyanik Protsahan Yojana' organised by IISc in 2016.
- **IIT Delhi Merit Scholarship** for being in the **top 7%** among 850 students in the 1st and 2nd semester.
- **State Topper** in Class XII Board Examination.

Major Projects

Capture The Flag WebApp   Prof. Ranjan Bose (CoE-CSIA, IIT Delhi)
Summer Research Project   *May 2017 - July 2017*

- Developed a CTF webapp for hosting information security competitions on a large scale.
- Built on Django framework with sqlite database and hosted it temporarily on heroku.
- The CTF which are mainly hosted are of attack-defence and Jeopardy style.

Tank Assault
IITD Development Club Project   *May 2017 - July 2017*

- Built a web based multiplayer game that featured a lot of mazes and tanks and created a client-server network.
- Worked on NodeJs server and used sockets for real time connection(Updating positions and rendering it without significant lag).
- Developed both Front-end and Back-end for the game and learnt server-client networking.

Departmental Site for Water Resources   Prof. Sumedha Chakma (CE, IIT Delhi)
Design Project   *July 2017 - August 2017*

- Developed WRE site on php-server on MySQL database.

Course Projects

Elevator Control System   Prof. Anshul Kumar, August 2017 - September 2017

- Designed a sequential VHDL code on vivado for the elevator on FPGA.
- Model had 2 lifts with 4 floors with all the external calls and internal floor requests.

Image Compression Script   Prof. Mausam, September 2017

Written an image compression script in Java which takes input in uncompressed format and then convert it to a compressed format on which various operations such as invert color can be performed.

Courses Undertaken

- **Institute Courses:** ** To be completed till Summer 2018*
  Data Structures, Discrete Mathematical Structures, Probability and Stochastic Processes, Programming Languages*, Computer Architecture*, Digital Logic and System Design, Calculus, Software Engineering*, Linear Algebra and Differential Equations.

- **Online Courses:**
  Machine Learning (by Stanford University)

Technical Skills

- **Programming Languages:** C, C++, Java, C#, Python, HTML, CSS JavaScript, PHP, SQL, Bash, VHDL, LaTeX

- **Softwares and Frameworks:** Django, Ember.JS, Sails.JS, Node.JS, Express.JS, Android Studio, React-Native, Eclipse, NetBeans, Git, Xilinx ISE Design Suite, Vivado, Octave / MATLAB, Visual Studio

Extra Curricular Activities

- Member of Various Technical Clubs at IIT Delhi : **Development Club, Hacking Club, Entrepreneur and Development Cell**
- Member of Various Non-Technical Clubs at IIT Delhi : **Board for Sports Activities, Student Affairs Council, Board for Hostel Management, Alumni Affairs and Interantional Programmes**

Experience

- **Jr. Web Executive** of Board for Sports Activities, IIT Delhi.
- **Web Representative** and **Design Representative** of Alumni Affairs and International Programmes, IIT Delhi.
- **Security Team Head at Rendezvous** (Cultural Fest of IIT Delhi).
- **Web Developer** of Mess Committee, Satpura Hostel, IIT Delhi.
- **Web Executive** of a startup named **Quadrotian.**
- **App Developer** of a startup named **ApioTech.**