



**Kalpesh Krishna**  
**Electrical Engineering**  
**Indian Institute of Technology Bombay**

**140070017**  
**UG Second Year**  
**Male**  
**DOB: 30/11/1996**

| Examination | University | Institute  | Year | CPI / % |
|-------------|------------|------------|------|---------|
| Graduation  | IIT Bombay | IIT Bombay | 2016 | 9.53    |

**SCHOLASTIC** Ranked **6<sup>th</sup>** in the department. Pursuing a Minor in **Computer Science**. Secured two **AP** grades(top 1%) in Basic Biology and Basic Computer Programming. Ranked **93<sup>rd</sup>** in India among 1.5 lakh candidates in JEE Advanced '14. Ranked **34<sup>th</sup>** in India among 1.4 million candidates in JEE Mains '14. **Top 10** in India in the 3<sup>rd</sup> round of the **Astronomy Olympiad**, the OCSC. **Top 300** in India in 1<sup>st</sup> round of Physics Olympiad and Chemistry Olympiad. Winner of the **Kishore Vaigyanik Protsahan Yojana '14** Fellowship Award. **2<sup>nd</sup>** in ICSE '12 (**98.6%**). City topper in CBSE '14 (**98.2%**), JEE Advanced, Mains. *Army Welfare Education Society Prize* for best academic performance in Army Schools.

**COMPUTER SKILLS** *Languages:* PHP(in Laravel 4), C/C++, Python(with OpenCV, Django), Java(with Android), Javascript(with NodeJS and AngularJS), Arduino, BASH  
*Software:* NgSpice, AutoCAD, Git, Wireshark, Photoshop, MATLAB, Processing

**EXPERIENCE** *Core Backend Developer, Pickup* March '15 - Present  
 Built **RESTful APIs**, designed an **ER Model Database** in **PHP** using the *MVC Framework* **Laravel 4** for a ridesharing service. Developing algorithms for the same.

*Convener, Web and Coding Club, IIT Bombay* April '15 - Present  
 Taking sessions and coordinating events of the largest programming club in India.

*In-sem Intern, Codechef* January '14 - February '14  
 Made problems for Codechef for Schools initiative and wrote algorithmic editorials.

*Coordinator, Mood Indigo '15, IIT Bombay* July '15 - Present  
 Designing the website, Android application and other microsites for the festival.

**PROJECTS** *Pyraminx Utility Kit, CS 101 Project* Spring '15  
 Used **BFS algorithm** and AVL trees to get mathematical results of optimal solutions of Pyraminx. Designed interface in C++, Allegro to get solve analysis, cube algorithm generators. Made **Android app** to read Pyraminx states via **image processing**.

*Bluetooth Mesh Network, ITSP '15* Summer '15  
**Android** chat application to implement **routing via Bluetooth** using a **Gnutella styled flooding algorithm**. Used graph algorithms to optimize the same.

*Holographic Touch Screen, ITSP '15* Summer '15  
 Made an **IR LED frame** interfaced in Arduino to detect positions of obstacles placed in it. Projected **hologram** of LCD screen, formed using parabolic mirrors, onto it.

**OPEN SOURCE** **Contributing to Mozilla** via bug fixes in Firefox Core, Toolkit, Gaia.  
**Active member on Github** with a number of personal projects in *image processing, Javascript, Python, NodeJS, Arduino and BASH*.

**EXTRA-CURRICULAR ACHIEVEMENTS** *Technical*  

- **2<sup>nd</sup>** at Microsoft code.fun.do Hackathon '14 for **PNR predictor** Windows app.
- Attended **Infosys Catch Them Young '10** and won best group software award.
- **7<sup>th</sup>** in India at **Technothon, Techniche '10, IIT Guwahati**.

*Non Technical*  

- **Karate Black Belt First Dan**. Trained in *Kyokushin Kai* for 7 years.
- Grand Master in Aloha **Abacus and Speed Maths**. National level winner.
- **NIE Student of the Year '11** for all round performance.
- Finalist at Fresher Football League. Member of Inter-Hostel football team.
- Interested in filmmaking, reading, music, star gazing, jogging and travelling.