Yashvardhan Didwania

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EDUCATION

- **B.Tech** — **Jul '16 - Present**
  Indian Institute of Technology, Bombay — **CPI - 8.64**
  Major in Electrical Engineering

- **Intermediate** — **Apr '16**
  Delhi Public School, Megacity — **95.60%**
  Indian School Certificate Examination (ISC)

- **Matriculation** — **Apr '14**
  Delhi Public School, Megacity — **94.80%**
  Indian Certificate of Secondary Education (ICSE)

ACADEMIC ACHIEVEMENTS

- Pursuing a Minor in **Computer Sciences and Engineering** (CPI - 9.0).
- Secured an **All India Rank 415** in **JEE Advanced '16** among 0.2 million candidates.
- Achieved **99.7 %ile** in **JEE Mains '16** among 1.2 million candidates.
- **Ranked 1st** in **WBJEE '16** among 0.12 million candidates in Engineering.
- **National Top 1%**(among 40,000) in the preliminaries for the **Indian National Chemistry Olympiad**(InChO).
- Amongst **Top 1%** in the State in the preliminaries for the **Indian National Physics Olympiad**(IPhO).
- Secured an **All India Rank of 465** in the **Kishore Vaigyanik Protsahan Yojana**(KVPY) '16.

TECHNICAL PROJECTS

- **Mood Indigo Website** — **May '17 - Aug '17**
  Web Development — *Mood Indigo,IIT Bombay*
  - Built the frontend of the website using **AngularJs** which also includes **HTML** and **CSS**.
  - Added multiple **animations** to the website including a rotating **Ferris Wheel** using **Jquery**.
  - Implemented the backend for CR Portal using **Django** and **REST API framework**.
  - Created a **custom System Panel** comprising of email functionality to ensure **maximum productivity**.
  - All the code was reviewed and perfected before being pushed to production.

- **LendIt** — **Jun '17 - Dec '17**
  Seasons of Code '17 — *Web and Coding Club,IIT Bombay*
  - LendIt is an online platform meant to bridge the gap between **book lenders** and **borrowers**.
  - Migrated the web application of LendIt to an Android App for better user experience.
  - Exposed **REST APIs** on **Django Server** to get the **ISBN** from the **Android App** and provide the necessary details of the book obtained from **Google Books API** back to the app.
  - Used **Graph API by Facebook** to fetch details about the user and create a **User Profile** in the database.

- **Microprocessor Controlled LED Cube** — **May '17 - Jun '17**
  Web and Coding Club — *Institute Technical Summer Project*
  - Developed an 8x8x8 LED Cube using **Shift Registers**, **MOSFETs** and **Arduino**.
  - Wrote a **Python script** which provides **serial input** to Arduino to control the ICs.
  - Used a **high refresh rate** of LEDs to display letters and various patterns on the Cube.

- **Stopwatch using TTL ICs** — **Feb '17 - Mar '17**
  Prof. M B Patil — *Electronics(Course Project)*
  - Devised a logical circuit that provided **start** , **stop** and **pause** features upto unit second precision.
  - Displayed the final result on **Seven Segment Displays** minimizing the circuit.
  - Used a combination of **timer** and **counters** to create the circuit.

POSITIONS OF RESPONSIBILITY

- **Volunteer** - Web and Coding Club, IIT Bombay   **Apr '17 - Present**
  - Coordinating events of one of the largest programming clubs in India aimed at inspiring students to take up programming to instill a hobbyist programming culture in the institiute.
  - Guided **100+ first year students** in making their first app using **MIT Scratch** and conducted the **Git** and **Android** workshops to introduce students to the basics of programming.
  - Developed an Internship Portal to connect startups, professors and companies with students seeking internships. We currently have over 700 students and 30 internships on our platform.
  - One of the **Founding Members** of the **GSoC Inncubation Cell** to guide students in getting started with **Open Source** and encourage more participation in GSoC.
- **Web and Tech Coordinator** - Mood Indigo, IIT Bombay   **May '17 - Present**
  - Asia's Largest College Cultural Festival | **1,39,000 footfall**. | **230+ events**
  - Developing websites, apps, portals for **Mood Indigo, 2017** that receive over **6.5 million** hits yearly.
  - Managing a team of over **50 organizers** to conduct and execute events in Mood Indigo 2017 .
  - Responsible for the technical materials brought for Mood Indigo like spider camera and quadcopters.
- **Web Secretary** - Electrical Engineering Students' Association   **Apr '17 - Present**
  - Created and managed **online elections** for various posts in the department using Gymkhana portal.
  - Updated the **EESA website** with latest data and events of the department.

OPEN SOURCE CONTRIBUTIONS

- Contributing to several open source projects for **Mozilla** with a globally distributed workforce of **Mozilla's Engineers**.
- Member and Contributor of **Taskcluster Project** - Execution framework for Mozilla's continuous integration and release processes.
- Significant contributions in **taskcluster-github** - integration of **Taskcluster** and **GitHub**. Worked on backend inteensive components to add support for new events and make it more user friendly.
- Assissted other engineers in migrating to login by username rather than email on
  Treeherder - Dashboard for Automatic builds and testing of Firefox, one of the components of Mozilla.

TECHNICAL SKILLS

- **Experienced :** Python, Django, Javascript (with AngularJS), HTML, CSS
- **Familiar   :** C/C++, Java(with Android), OpenCV, Bash, LaTeX, PHP, Arduino
- **Tools   :** Git, ngSpice, vagrant, Quartus, LaTeX

KEY COURSES

- **Electrical Engineering** - Data Analysis and Interpretation, Electronic Devices, Network Theory, Signals and Systems, Analog Circuits, Power Electronics
- **Computer Sciences** - Computer Programming and Utilization, Computer Networks, Data Structures and Algorithms, Automata Theory
- **Mathematics** - Complex Analysis, Calculus, Linear Algebra, Differential Equations
- **Others** - Quantum Physics and Application, Electricity and Magnetism, Economics, Biology

EXTRA CURRICULARS

- Secured **1st** position in **Stratazenith**, a game theory based event conducted by **IGTS** in **Techfest'17**
- Completed a two semester course offered by **National Sports Organisation** in **Squash.**
- Participated in **Institute Squash Freshmen Open** and **Aavahan,IIT Bombay.**
- Completed the **Yahoo! HACK U '17** campus hackathon successfully.
- Member of **Best freshmen team** in **Logic GC '16** conducted by **Maths and Physics Club**
- Successfully completed a **Level A1 Chinese Course** in Jun '11.
- Achieved **2nd Position** in **Freshiezza Group Dance** in 2017.
- Performed in **Annual Insync Dance Show** at IIT Bombay in front of 2500+ crowd.

INTERESTS

- **Technical** -Web Applications, Data Science, Database management, Automation.
- **Other** - Reading, Travelling, Cycling, Music, Gaming