**D H A N E S H K U M A R 110050021**



**Computer Science & Engineering Male**

**UG Second Year (B.Tech.) DOB: 26-05-1992**

**Indian Institute of Technology, Bombay**

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| --- | --- | --- | --- | --- |
| **Examination** | **University/Board** | **Institute** | **Year** | **CPI / %** |
| Graduation | IIT Bombay | IIT Bombay | 2011-12 | 6.84 |
| Intermediate/+2 | CBSE | PMHS | 2010 | 84.20 |
| Matriculation | CBSE | JNV Jehanabad | 2008 | 92.60 |

* **ACHIEVEMENTS**
* **IIT-JEE (Joint Entrance Examination, Conducted by the Govt. of India):** Secured **580 rank** in **IIT-JEE 2011**, among **top 0.2%** of the **5,00,000** (approx.) candidates appeared.
* **AIEEE (All India Engineering Entrance Examination, Conducted by the Govt. of India):** Qualified in 2011 and ranked among the **top 0.5%** of the **10,60,000** (approx.) candidates appeared.
* **ISAT (Indian Institute of Space Science and Technology Admission Test, Conducted by the Govt. of India):**  Qualified in 2011 and ranked among the **top 0.4%** of the **80,000** (approx.) candidates appeared.
* Recipient of **Institute** **MCM (Merit Cum Means) Scholarship**.
* **PROJECTS UNDERTAKEN**

* **POST JEE BRANCH ALLOTMENT AND STATISTICAL ANALYSIS** – *Course Project, Autumn 2011*

*Guided by:* **Prof. Deepak B Phatak,** Department of CSE, IIT Bombay

* Designed software for allotment of seats in various branches of various IIT Colleges to students on the basis of their ranks, their respective preferences, availability of seats in a given branch and their category.
* Analyzed the given data statististically and represented it in forms of graphs.
* Implemented the EzWindow graphics library to designing the various Graphs and histograms.
* As a **team leader,** devised exhaustive algorithms for the flexibility of the program.
* Extended the algorithm which can be applied to seat allotments for all the colleges of a university.
* **GRAPHICAL INTERFACE APPLICATION DEVELOPMENT** – *Course Project, Spring 2011*

*Guided by:* **Prof. Amitabha Sanyal, *Department Head****,* Department of CSE, IIT Bombay

* Designed a single player Backgammon game compiled in PLT Scheme (Dr Racket).
* Implemented **Artificial Intelligence** to select the best possible move of computer.
* Implemented **Expectiminmax Algorithm** for move calculation.
* Implemented the Object Oriented Paradigm of programming.
* Implemented the “racket/gui” graphics library of Scheme to design the user interface..
* **DROPBOX FOR IIT MOODLE**– *Summer 2012*

*Guided by:* **Web n Coding Club (WnCC),** IIT Bombay

* Developed a Dropbox for IIT Moodle which automatically download and syncs all lectures files and video to our laptop, uploaded by professors on Moodle**.**
* It also upload these files to bighome (500 MB space) provided by iit Bombay which can be access from anywhere from under campus of iit.
* **TECHNOLOGY FOR SENIOR CITIZENS** -*December 2011*

*Guided by:***Prof. Amarnath Chitta,** Department of Mechanical Engineering, IIT Bombay

* Designed a stick in **Design Exploration Workshop (DEW)** which opens up as a chair which can be used by the senior citizens for sitting purpose as per the need anywhere.
* Included an SOS button in the stick which will inform the people to help him in any emergency.
* Included a Torch in the stick which will help him going anywhere in the night.
* Forwarded a proposal to **Prof. Amarnath Chitta** to make it real.
* **AREA OF INTERESTS**
* **Algorithm Design & Analysis**
* **Web Designing**
* **Functional Programming**
* **SOFTWARE SKILLS**
* **Operating Systems: WINDOWS, GNU/LINUX**
* **Programming Languages: C, C++, Java,python, SWI-Prolog, PLT-Scheme**
* **Web Application Design Techniques: HTML, CSS, Javascript, PHP**
* **Software Tools: Adobe Photoshop, MS Office, Scilab, SolidWork**
* **POSITIONS OF RESPONSIBILITY**
* **CO-ORDINATOR (MOOD INDIGO-2012):** Currently, working as a co-ordinator for Marketing Group of Mood Indigo, the annual cultural festival of IIT Bombay, to be held in December 2012.
* **ORGANIZER (TECHFEST-2012):** Actively worked in a team to organize Asia’s largest technical festival **TECHFEST** and managed the competition Devil Dozer.
* Core team member of **Insync**, the dance club of IIT Bombay.
* Worked efficiently as a **Team Leader** for the consolidation of a Computer Science project during the first and second semester of B.Tech (Autumn 2011).
* **RELEVANT COURSES UNDERTAKEN**
* Computer Programming and Utilization
* Abstractions and Paradigms in Programming
* Data Structures and Algorithms\*
* Discrete Structures\*
* Advanced Calculus
* Linear Algebra
* Differential Equations
* Economics
* Electrical and Electronic Circuits\*

*\*To be completed by November, 2012.*

* **EXTRA CURRICULAR ACTIVITIES**
* **TECHNICAL:**
* **TECHFEST-2012:** Took part in various Tech-events (Coding competitions like **NEXUS NAVIGATE** and **Code Maestros.**
* Designed a **Remote Controlled Car** in the **Tech One** competition held by the **Electronics Club,** IIT Bombay..
* **MISCELLANEOUS:**
* Made a group record to solve the **Rubik’s Cube** in **the** **Guinness Book of World Records** and the **Limca Book of World Records.**
* Secured **1st** **position** in **Photography** competition in **Freshizza** (Largest fest for freshmen in IIT Bombay).
* Represented school in **District** level quizzes and remarkably bagged **first prize** in an **Open General Knowledge Quiz (2006).**
* Performed in Annual Insti Dance Show 2011 in IIT Bombay.
* Acted in many street plays.
* Other Activities: Playing Badminton, skating, Swimming, Yoga, Trekking.