

Aashay Harlalka Computer Science & Engineering Indian Institute of Technology, Bombay Specialization: None 100050035

UG Third Year (B.Tech.)

Male

DOB: 6 Oct. 1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.85
Intermediate/+2	CBSE	Vidya Niketan Sr. Sec. School	2010	92.00
Matriculation	CBSE	Kendriya Vidyalaya No.1, Udaipur	2008	92.40

ACADEMIC ACHIEVEMENTS

- Secured All India Rank 31 in IIT-JEE 2010 among 472,000 students
- Awarded Certificate of Merit for top 1% of candidates in National Physics Olympiad

(2010)

- Secured **International rank 41** in International Mathematics Olympiad organized by Science Olympiad Foundation
- Secured All India Rank 375 and State Rank 65 in AIEEE 2010 among more than 1 million students
- Secured 100% marks in Mathematics in Matriculation

(2008)

• Kishore Vaigyanik Protsahan Yojana (KVPY)

(2009-10)

Awarded KVPY scholarship, scholarship given by Government of India at undergraduate level for promoting Science, Education and Research

• SBI Scholarship (2010-to date)

Recipient of SBI scholarship awarded to meritorious children of SBI employee

• Vijvoshi (Vigvan Jvoti Shibir)

(2009)

Attended Vijyoshi, organized by the Jawaharlal Nehru Centre for Advanced Scientific Research in association with Kishore Vaigyanik Protsahan Yojana (KVPY)

INDUSTRIAL EXPERIENCE AND RELEVANT PROJECTS

• Claritics Social Gaming Analytics

(Internship, Summer 2012)

- Created API Layer for ingesting gaming events and client Libraries to make it easy to collect relevant event data for social games. Developed client Libraries in Android, Java, HTML5
- These API then write out to the **MYSQL database** that house the raw incoming event feeds.
- Final data is well presented on the gaming dashboard and reports
- **Data Buffering** enhanced the libraries to pool the events in a memory queue, which is then dispatched onto the database by a background thread not disturbing UI
- Created API (in Ruby on Rails) to recommend virtual goods to users

Mexus Education Pvt. Limited

(Internship, Winter 2011)

- Worked at department of Research and development of product
- Prepared special papers for **Ikenscientifica** (international level competition for class 8th and 9th), many activities, questions and other study material to enhance their interest and knowledge in science

• Desktop Search (C++)

(Autumn 2011)

Guide- Prof. Varsha Apte, Department of Computer Science and Engineering, IIT Bombay

- Search for relevant information of all the files in a folder matching the enquired keyword(s)
- Made a **crawler** (indexer) which crawls the whole given folder and build an index for that
- Implemented **B-Tree** and used **Taglib** package to store meta data of MP3 files
- Dealt with huge data (worked with 150 GB of data with more than 50,000 files) as disk memory is used instead of heap memory
- **Discrete Simulation** (C++) Guide- Prof. Varsha Apte, Department of CSE (Autumn, 2011)
 - Advanced multi-queue simulation in a supermarket calculating all statistical quantities like average waiting time, average queue length, average service time, average server busy time, etc.
- **Bomberman** (PLT Scheme)

(Spring 2011)

Guide- Prof. Amitabh Sanyal, Department of Computer Science and Engineering, IIT Bombay

- Designed and Implemented a single player game using GUI Libraries offered by Dr. Scheme
- Used A-star algorithm as Artificial Intelligence for finding the shortest path
- Multiple parallel events handled by Threading

• Intel 8085 Simulator (C++)

(Autumn 2010)

Guide- Prof. D. B. Phatak, Department of Computer Science and Engineering, IIT Bombay

- Followed **object oriented approach** to develop a simulator package for Intel 8085 assembly instruction. Designed using Ot 4 **GUI libraries** in GNU C++ 4.4.5
- Includes an editor, compiler, parser, interpreter and debugger which could show every execution step, hexadecimal conversion of the code and its effect on microprocessor's registers

SOFTWARE SKILLS

Programming Languages: C/C++, Java, Android, Scheme, SWI Prolog, MATLAB, Latex

Web Designing: HTML, CSS, JavaScript, PHP, MYSQL

Tools: Adobe Photoshop, Android SDK, Java GUI, JDBC, Eclipse, Netbeans, Bash Scripting, SVN

RELEVANT COURSES

Computer Science: Computer Programming and Utilization, Abstraction and Paradigms for programming, Data Structures and Algorithms, Discrete Structures, Automata Theory and Logic, Logic Design, Design and Analysis of Algorithms, Computer Architecture*, Database and Information System*, Computer Networks*, Computer Aided Geometric Design*

Mathematics and Statistics: Calculus, Linear Algebra, Data Analysis and Interpretation, Differential Equations, Numerical Analysis, Probability Theory, Introduction to Derivative Pricing, Statistical Inference*

*to be completed by November 2012

POSITIONS OF RESPONSIBILITY

- Co-ordinator, Techfest'12 (IIT Bombay's annual technical festival)
 - Worked as Co-ordinator in Hospitality department
 - handled accommodation of over 4000 people
- Co-ordinator, E-cell'12
 - Worked as Co-ordinator in Web Development Department
 - Responsible for maintaining and developing the content of website
- Organizer, Techfest'11
 - Worked in Infrastructure dept. and handled infrastructure requirement of various events during Techfest

EXTRA CURRICULAR ACTIVITIES

- National Service Scheme (NSS), IIT Bombay
 - Member of Personality Development Program and Group for Rural Activities
 - Visited 2 villages to understand their living conditions
- RC motor remote-controlled car

(2010)

- Remote Sensor Car using RC circuit capable of climbing inclines and overcoming obstacles on the track.
 Made the car water resistant using low cost material
- Completed Youth Empowerment and Skills workshop offered by art of living
- Cleared first level and made a boat in **Junkyard Wars** organized in Techfect'11
- Secured 4th position in intra hostel **photography competition**

(2010)

CODING

- Certified Yahoo! Ethical Hacker
 - Designed an innovative product which analyses your friend's online activity and give us graphs about when he/she generally comes online

SPORTS

• Played as goalkeeper in the **GC** (General Championship) **winning Football** Team.

(2011)

• Received **best goalkeeper** award in football in Hostel Three Premier League

(2010)

• Played in hostel freshmen and sophomore **football** and freshmen **volleyball** GC (General Championship)