



Harshith Goka
Computer Science & Engineering
Indian Institute of Technology Bombay

150050069
UG Second Year
Male
DOB: 9-3-1998

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2017	9.14
Intermediate/+2	Telangana State Board of Intermediate Education	Narayana IIT Academy Attapur	2015	98.40
Matriculation	Board of Secondary Education, Andhra Pradesh	Narayana IIT Olympiad School	2013	9.70

SCHOLASTIC ACHIEVEMENTS & CREDENTIALS

- Secured **All India Rank 25** in **JEE (Advanced)** out of **150,000** candidates (2015)
- Secured **All India Rank 8** in **JEE Main (B.Arch)** out of **150,000** candidates (2015)
- Secured **All India Rank 26** in **JEE Main (B.Tech)** out of **1.3 million** candidates (2015)
- Awarded the Kishore Vaigyanik Protsahan Yojana (**KVPY**) Fellowship held by the Department of Science and Technology, Government of India with an **All India Rank 70** (2014)
- Secured **State Rank 19** in **AP State Common Entrance Test** out of about **150,000** candidates (2015)
- Secured **State Rank 60** in **Telangana State Common Entrance Test** out of about **250,000** candidates (2015)
- Awarded **AP grade** for excellence (given to top 1% students) in Engineering Drawing (2015-16)
- Pursuing **Minor** in **Electrical Engineering Department** (2016)

PROJECTS

Simple GUI Based Text File Compressor and Polynomial Processor

(Oct' - Nov' 2015)

Prof. Varsha Apte - Course Project

IIT Bombay

- Developed a very simple dictionary based text compression which is based on Huffman Coding Algorithm
- Developed the GUI using **simplecpp** graphics, a very basic drawing library
- Developed a full fledged polynomial processing with plotting functions, roots of the equation
- Also included is a paint application with very simple drawing tools

Feedback and Remainder App

(Oct' - Nov' 2016)

Prof. Sharat Chandran - Course Project

IIT Bombay

- A multi-purpose academic app for college students
- A web portal to update the assignment deadlines, classes and quizzes/exams and analyse feedback data from the client Android app
- Server portal based on **Django** with all the default configurations and a few security measures against XSS, CSRF, clickjacking etc.
- A client android app fetches from the cloud and makes a personalised timetable and deadlines and allows us to send feedback on the courses and
- Asynchronous implementation of the Android app for instant synchronization from the server

SELF PROJECTS

Gesture Control Glove for Android

(Summer 2016)

Institute Technical Summer Project

IIT Bombay

- Developed a glove with flex sensors and motion sensors with bluetooth module
- Written code to read and transmit data for two simple AVR based Microcontrollers attached to glove
- Created an android application to connect to the glove via bluetooth and receive sensor data
- Used Dynamic Time Warping queue based algorithm to process the stream of data to recognize the gestures
- Implements many android system function calls like Volume control, Brightness control etc.

INTERESTS

- Data Analysis, Machine Learning
- Operating Systems
- Data Structures and Algorithms, Discrete Structures

TECHNICAL SKILLS

Programming	Fluent in C/C++, Experienced in JAVA, Android App Development, Python, Bash, GNU Octave and familiar with Rust
Web Development	Fluent in HTML, CSS and JavaScript
Web Libraries	Materialize CSS, jQuery
Software	Experienced in Git, MATLAB, SolidWorks, AutoCAD, Box2D and familiar with \LaTeX , Inkscape, gnuplot

POSITIONS OF RESPONSIBILITY

Web Co-ordinator (2015 - 2016)
Entrepreneur Cell IIT Bombay

- Development of the College Representative Portal, NEC (National Entrepreneurship Challenge) web application and CR (College Representative) web portal
- Link of Facebook Likes and Shares to a Score assigned to each of college representatives users in the CR Portal
- Responsible for developing and updating the database for the CR portal

KEY COURSES UNDERTAKEN

Computer Science

Data Structures and Algorithms + Lab *, Software Systems Lab *, Discrete Structures *, Data Analysis and Interpretation *, Machine Learning **, Digital Logic Design + Lab **, Design and Analysis of Algorithms **, Logic for Computer Science **, Computer Networks + Lab **, Abstractions and Paradigms for Programming, Programming Paradigms Lab

Mathematics

Calculus, Linear Algebra, Differential Equations

Others

Social Psychology, Introduction to Electrical and Electronics Circuits *, Biology, Quantum Physics and Application, Basics of Electricity and Magnetism

* Course to be completed by November 2016

** Course to be completed by April 2017

EXTRACURRICULARS

- Completed a basic course in **French Language** by Telangana State Board of Intermediate (2013 - 2015)
- Completed a basic **Japanese Language** course by the IIT Bombay International Relations Office (2015 - 2016)
- Represented hostel in **Group Dance** competition organised for Freshman by Cultural Club IIT Bombay (Sept' 2015)
- Participated in the **Remote Control Plane** making competition by the Aeromodelling Club of IIT Bombay (Oct' 2015)
- Represented hostel in the General Quiz competition by the Literature Club of IIT Bombay (Sept' 2016)
- Keen interest in Music and playing Guitar
- Completed a basic guitar course offered by IIT Bombay on behalf on NSO (2015 - 2016)
- Participated in the hackathon Code.fun.do conducted by Microsoft (Nov' 2016)