

Arihant Parsoya Civil Engineering Indian Institute of Technology Bombay 15D260012

UG Third Year (B.Tech.)

Male

DOB: 26/02/1997

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2018	8.32
Intermediate/+2	Vikas The Concept School	Vikas The Concept School	2014	92.20
Matriculation	Vikas The Concept School	Vikas The Concept School	2012	9.60

EDUCATION AND ACHIEVEMENTS

- 2015- Pursuing a **Major** in **Civil Engineering** with **Minor** in **Systems and Control Engineering** Present
 - 2016 Awarded Change of Branch after first year on the basis of excellent academic performance
 - 2013 Awarded the prestigious KVPY Scholarship, instituted by the IISc

WORK EXPERIENCE

- Jun '17 Google Summer of Code, Python Software Foundations.
- Aug '17 Guide: Francesco Bonazzi & Dr. Ondrej Certik | SymPy
 - o Implemented Rule Based Integration(RUBI) in SymPy using pattern matching capabilities of MatchPy
 - Created Mathematica to SymPy rules parser of RUBI rules
 - Implemented RUBI utility functions in SymPy
- June '16 Web Developer and Designer, ZIPTOWN Logistics Pvt. Ltd, Mumbai.
 - - o Developed and Designed web interface for price estimation of multiple deliveries using Google Maps API
 - o Added real time chat functionality to the main website

ACADEMIC AND TECHNICAL PROJECTS

Mar '17 - Chat application for Sport followers.

- Apr '17 Prof. Anirudha Joshi | Course Project, Industrial Design Center, IIT Bombay
 - o Build android application to enhance conversation between people while watching sports
 - Evaluated the application during football match

March '17 Exploring 2017 UP Assembly Election Results.

Prof. Venkatesh Rajamanickam | IDC, IIT Bombay

o Created an interactive visualization tool to analyze 2017 Uttar Pradesh(UP) elections

Dec '16 30 years of marriages in Singapore.

Prof. Venkatesh Rajamanickam | IDC, IIT Bombay

- Analyzed marriage data of Singapore from 1984 to 2015 for people of different demographics such as age, religion and education level
- Created chord diagrams to visualize correlation between different brides and grooms of each category

Jul '16 - Educational Infrastructure Data Visualization for Maharashtra.

- Dec '16 Prof. Venkatesh Rajamanickam | IDC, IIT Bombay
 - Analyzed facilities data of more than 1 lack government schools in Maharashtra and developed sorting algorithms to recursively sort data based on location
 - o Created tree map visualization to see aggregate facilities at different hierarchical levels

Jul '16 - Improving Agriculture Efficiency in India.

- Nov '16 Dr. Aparna Rao | Course Project, Center for Entrepreneurship, IIT Bombay
 - o Developed business model to improve agriculture efficiency in India using technology and economies of scale
 - Validated our idea with real farmers and analyzing different scientific farming methods

Jan '16 Binary Multiplier Circuit.

Prof. M.B. Patil | Course Project, IIT Bombay

- o Designed and simulated binary multiplier circuit of four bit number
- Implemented multiplication logic using shift register integrated circuit

Feb '16 MyCare.

Kandy.io Hackathon | WnCC, IIT Bombay

- Created online portal for patient and doctor interaction using Kandy.io API
- The portal was capable of allowing live video chats, text chats and file sharing
- Won 3rd position in the competition

Oct '15 Polynomials.

Prof. Varsha Apte | Course Project, IIT Bombay

- Developed a C++ class to allow manipulation of unidimensional and multidimensional polynomials
- o Created plotting module capable of plotting Contour Plots of the multidimensional polynomial

May '16 Vision.

Image Processing | Individual Project

- o Created Python application which can plot 3D model of a person using front view and side view images
- The output of the application is used to simulate the fitting of dresses on body

Sep '15 Feather.

Game Development | WnCC, IIT Bombay

- o Created flying bird game within 72 hours as part of WnCC Game Jam hackathon
- Used JavaScript libraries in Unity platform to increase interactivity in the gameplay

POSITIONS OF RESPONSIBILITY

April '16 – Web Convener.

May '17 Insight | IIT Bombay

- Core team member, developing new website on Django and also creating and managing new microsites to post articles and blogs.
- Developing API and design for major websites such as IITB Senior Survey and Quibbler
- o Creating templates for websites and managing posts on the website

TECHNICAL AND COMPUTING SKILLS

Programming Python, C++, JavaScript, Java, PHP, MySQL

Languages

Tools Raspberry PI, Arduino, MATLAB, Heroku, Git

Softwares Autodesk 3D Max, Google SketchUp, Unity, Processing

Operating MacOS, Microsoft Windows, Ubuntu

Systems

RELEVANT COURSES

Computer Human Computer Interaction, Data Structures and Algorithms, Computer Programming and Utilization,

Science Introduction to Machine Learning(Coursera)

Mathematics Calculus, Linear Algebra, Differential Equations

Other Mathematical Structures for Systems and Control, Digital Image Processing of Remotely Sensed Data, Introduction to Robotics(MIT OCW)

Extra Curricular Activities

- Won 3rd position in Kandy.io hackathon conducted at IIT Bombay
- Secured Silver medal Vijyoshi State Level drama competition
- Camp Attendee, National Science Camp Vijyoshi held at IISc bangalore
- Participated in XLR8 remote controlled robot making competition
- o Inter school basketball and badminton player. Won Gold Medal in inter school badminton tournament
- Participated in workshops of Embedded Systems and Economics
- o Created games as individual project on Processing and P5.js