

Prince Rudranarayan Sharma Aerospace Engineering Indian Institute of Technology Bombay 170010017 UG Third Year (B.Tech.) Male

DOB: 12/08/1999

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2020	6.52

SCHOLASTIC ACHIEVEMENTS

- . Secured 99.14 Percentile in JEE Advanced 2017 out of 200,000 students
- . Ranked in Top 0.28% in JEE Main 2017 out of 1.2 million students

TECHNICAL EXPERIENCE

Threat Research Intern — Endpoint Security CrowdStrike, Inc

May - July '19

- Analysed & Documented CrowdStrike's Falcon behaviour upon detonating 14+ malicious files developed using Metasploit Framework's file-type exploit for .docs, .pdf, .ace files.
 Reverse Engineered malicious PE files to identify malicious code using tools like IDA Pro, x64dbg,
- Reverse Engineered malicious PE files to identify malicious code using tools like IDA Pro, x64dbg,
 Wireshark, etc. and documented research with a detailed technical analysis
- · Analyzed Metasploit's Evasion module also experimented various Evasion techniques with Shellter
- · Prepared a New-Intern-Handbook for getting started with CrowdStrike's Falcon and Endpoint Security

POSITIONS OF RESPONSIBILITY

- Events Coordinator — Entrepreneurship cell, IIT Bombay

Apr '18 - Jan '19

- · Worked at National Entrepreneurship Challenge to conduct Nationwide competitions
- · Attended entrepreneurial conferences for interacting with 50+ corporate heads for networking
- · Contacted and collaborated with 60+ startups in IIT-B to establish a startup community
- Cultural and Events Coordinator Mood Indigo, IIT Bombay

May '18 - Apr '19

- · Invited **20 artists from 10 countries** to exhibit international performances at Mood Indigo
- · Led a team of 15+ organizers that executed events in International Music Festival (IMF)
- · Negotiated with renowned Indian artists & clubs in Mumbai to showcase 12 Concerts in IMF

KEY PROJECTS

Big Data Analysis — Data Analysis and Interpretation

Autumn '18

Prof. Prabhu Ramchandran | Aerospace Department | IIT Bombay | Course project

- · Analyzed the Wisconsin data set for Breast Cancer and built a statistical model using the tumor data
- The model made predictions using Linear Regression achieving a pre-defined level of confidence
- · Analyzed data using various libraries like Numpy, Pandas, Scipy etc in Python Trajectory Modelling of Delta II 1920-10, ROSAT Spaceflight Mechanics

Spring '19

Prof. Ashok Joshi | Aerospace Department | IIT Bombay | Course project

- Designed the complete **ascent mission** trajectory of the four stages of **Delta II 1920-10**, writing comprehensive code in **Python** to find burn profile and the gravity turn at each stage
- · Found out the optimal **orbital manoeuvres** taken by **ROSAT** to reach final orbit from point of release in actual mission time and made an simulation of the same

Computation on potential flow theory — Fluid Mechanics

Autumn '18

 $\textit{Prof. Aniruddha Sinha} \mid \textit{Aerospace Department} \mid \textit{IIT Bombay} \mid \textit{Course project}$

- · Used the concept of stream function to obtain and visualize the streamlines for **super-critical circulation** of a **rotating cylinder** in **Python** by superimposing results of doublet,vortex and uniform flow.
- Analysed and presented the effects of changes in parameters to the distribution of streamlines

TECHNICAL SKILLS

- **Programming** Python, C/C++, JavaScript, HTML5, CSS3, Bash
- Softwares Vim, Git, GitHub, LTFX, Jupyter, AutoCAD, SolidWorks
- Security Tools IDA pro, OllyDbg, x64dbg, Metasploit, VMware, Wireshark, Nmap, Kali
- Security skills Malware, Vulnerability/Exploitation, Reverse Engineering

EXTRACURRICULAR ACTIVITIES

- Spent 80+ hours teaching basic Mathematics and English to underprivileged kids
- Successfully completed 15 day Mountaineering Adventure Camp, certified by JIMWS Sanasar, Learned rock climbing, rappelling, river crossing and Basic techniques of survival in various situation.
- Mentored Three team in EnB BuZZ, a B model competition which had participated by 100+ teams
- Mentored Three team in Code camp organised by codepromt, Internet Academy which had 130+ participants, students made an web app using Flask, HTML, CSS