

Samarth Varma

3rd Year Undergraduate
Department of Electrical Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2018 - Present	B.Tech	Indian Institute of Technology, Kanpur	8.3
2018	CBSE(XII)	Delhi Public School, Bopal (Ahmedabad)	88%
2016	CBSE(X)	Delhi Public School, Bopal (Ahmedabad)	10

Scholastic Achievements

- Secured **All India Rank 623** in **JEE Advanced 2018** among the 2.3 Lakh shortlisted candidates.
- Secured **All India Rank 1076** in **JEE Mains 2018** among 1 million candidates.
- Qualified with **All India Rank 225** in **Kishore Vaigyanik Protsahan Yojana (KVPY)** (Young Scientist Incentive Plan), scholarship program funded by the **Department of Science and Technology of the Government of India**. **KVPY based admission to B.S. was offered in IISc.**

Internships

- Indian Space Research Organisation (ISRO), Ahmedabad** (April'19- July'19)
Project: 3D Web Visualization
Mentor: Mrs. Shivani Shah, Scientist SF, Indian Space Research Organization, SAC, Ahmedabad.
 - As a research project, this project was aimed at learning the methods to visualize satellite data, hdf5, netCDF or NRRD formats into a web-based UI. This was done by **Volume Rendering using Web Graphics Language (WebGL 2.0)** which was released in 2017 that uses Ray Casting and OpenGL ES 3.0 Shading Language.
 - WebGL 1.0 and 2.0 is used in several Web Applications as it doesn't require any plug-ins. Used Three.js which uses WebGL 2.0 API.
 - Main Programming Library: Three.js (Javascript).
- Walmart Global Tech (Online)** (Current)
 - As an intern in InfoSec Engineering Dev Team of Walmart Global Tech, contributed in ongoing projects of the team, namely, PingFed, PingAccess and CI Azure Management Microservices.
 - Worked in both FrontEnd (React) and BackEnd (Spring MVC) of these RESTful powered Web Applications.
 - Brought Several Enhancements in the PingFed and PingAccess Portal including writing APIs like Timed Auto Rejection.
 - Wrote Several Unit Tests with JUnit and Mockito for CI Azure Management Project. Currently working on Integrating Testing for the same.

Technical Skills

*exposure

- Programming Languages:** C, C++, HTML, L^AT_EX, Python, Javascript, Java, Arduino*
- Libraries/Frameworks:** WebGL(API), three.js, Spring MVC, ReactJS, JUnit, Mockito
- Software:** Autodesk Inventor, Autodesk AutoCAD, Autodesk fusion, CAM, Octave*, Aliza*

Relevant Courses

Partial and Ordinary Differential Equation Fundamentals of Computing Real and Complex Analysis Mathematics for Computer Science Data Structures and Algorithms	Probability and Statistics Linear algebra and Differential Equations Machine Learning for Wireless Introduction to Machine Learning Algorithmic Toolbox (Coursera)
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Extra-Curricular Activities

- Worked in the **National Service Scheme (NSS)** for 2 semesters, which is aimed to instill the idea of social welfare in students. Carried out door-to-door service in the campus.
- Strong foundation in technical photography basics
 - Composed and Directed shots including editing for the course Art105 - **Introduction to art of video making.**