

## Prakhar Varshney

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## EDUCATION

### JSS Academy of Technical Education, Noida

Noida, Uttar Pradesh

August 2017 – June 2021  
(expected)

- Bachelor of Technology in Computer Science and Engineering

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## WORK EXPERIENCE

### PinnacleWorks Infotech Ltd.

Machine learning – Image processing intern

June 12th, 2019 –  
August 2nd, 2019

- I worked on a Deep Learning pipeline for object detection and OCR. Wrote and maintained scripts to pre-process the images using NumPy, pandas and OpenCV and also worked on improving accuracy of the deep learning pipeline.

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## TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, JavaScript
- **Backend Technologies:** MySQL, MongoDB, Django, ExpressJS
- **Machine Learning and Data Analysis:** NumPy, Pandas, Scikit-learn, TensorFlow
- **Frontend:** HTML, CSS, JavaScript, ReactJS

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## PROJECTS

### Tech Trek

[www.github.com/prakhar9998/tech-trek](https://www.github.com/prakhar9998/tech-trek)

- It is an online brainstorming game hosted on college servers which gathered 350+ registered users. It had several features like Achievement/Badge system and scoring system with a payment portal integrated.
- The technology stack is ReactJS frontend with Django as backend and uses MySQL database. I was responsible for developing the REST APIs in the backend. Hosted using Nginx in Ubuntu Linux.

### 3D Renderer

<https://github.com/prakhar9998/3DRenderer>

- A C++ application built from scratch which can be used to render 3D graphics on screen. This is built using minimal dependencies. I developed this to understand C++ topics such as Object-oriented programming along with learning computer graphics. This project includes an object parser, vector/matrix template library, lighting shaders and a parallelized renderer.
- **Skills utilized:** Programming in Linux environment, Computer Graphics algorithms, C++, CMake, OpenMP

### Sherlocked

[www.github.com/prakhar9998/sherlocked2019](https://www.github.com/prakhar9998/sherlocked2019)

- It is a puzzle-based 3-day event hosted in college fest which had 150+ registered users. I was responsible for creating backends which served web pages using Django Templating Engine. It is deployed as a web app and developed in Python using Django Web Framework.

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## ADDITIONAL ACTIVITIES

### Smart India Hackathon 2019

- Won first prize at Smart India Hackathon 2019.

### Nibble Computer Society

Organizing Member

- Organized and instructed in hands-on workshops on C programming and Web Development aimed at providing students with skills to get started with programming. And contributed to the society projects.