

# Vishal Yadav

## SENIOR SOFTWARE ENGINEER



### Profile

Senior Software Engineer with 8+ years of experience in developing scalable, secure software applications, specializing in Python. Adept at staying updated with the latest technologies and best practices to drive innovative solutions.



### Work experience

Present  
↑  
Mar 2023

#### SENIOR SOFTWARE ENGINEER BOTLAB DYNAMICS, IIT-Delhi

- Actively leading a team of three members to achieve project goals.
- Developed and implemented the image projection algorithm for drone systems, significantly advancing their visual capabilities.
- Development & maintenance of various blender plugins for the company using python.
- Developed an algorithm that enables drones to achieve flawless and exact landings on their designated positions.
- Developed a collision-free drone transition algorithm, enhancing pathfinding and scalability on AWS EC2.
- Developed a plugin to autonomously generate animation, ensuring drones follow specified sequences, velocities, collision avoidance, seamless color transitions, and timed formations.

Mar 2023  
↑  
Aug 2018

#### PROJECT ASSISTANT CSIR-NPL, Delhi

- Developed a “Web based game” for CSIR-JIGYASA under the Government of India (GoI). The project aimed to illustrate the principles of time synchronization and its practical applications.  
Check out this game hosted on - [GAME URL](#)
- Developed a “Python-based software using Socket Programming” to extract/filter data from the SATRE TWSTFT Modem and compared it with the former software (developed by ISRO).
- Developed a “Python- based GUI Application” to display/plot and calculate Real-time data as well as Stored data like Time-Offset, Standard deviation, Lock percentage, etc. of the SATRE TWSTFT Modem.
- Developed a “Python-based data processing software” which calculates the Average of Time Offset and processes the data every month for synchronizing the time of ISRO with the IST.
- Developed a “Linux-based shell-script” to automatically fetch and upload files from the NavIC Receiver and SATRE Modem to the server daily.



### Contact



#### Email

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+91 9582895161



#### Address

WZ-76/A, Todapur  
New Delhi



#### Website

Portfolio Website



### Skills

- Python
- Django
- Django REST Framework
- GraphQL
- AWS EC2
- AWS Lambda
- AWS S3
- PostgreSQL
- SQLite
- Docker
- Gunicorn
- Nginx
- JSONWebToken (JWT)
- Bootstrap
- HTML
- CSS
- Selenium Web Driver
- Cron Jobs
- Font Awesome
- Slack
- Bpy

Aug 2018



Aug 2017

## JUNIOR SOFTWARE ENGINEER

*SHEETAL ENTERPRISES, Delhi*

- Developed and maintained various software for the company using python.
- Improved overall efficiency by 13% of existing software by consistently optimizing it.



## Education

2017



2013

### B.TECH

*Instrumentation And Control Engineering*

*Guru Gobind Singh Indraprastha University, Delhi*

2013

### CLASS XII

*CBSE*

*Midfields Senior Secondary School, Delhi*

2010

### CLASS X

*CBSE*

*Mamta Modern Senior Secondary School, Delhi*



## Honors And Achievements

2022

Certificate of poster presentation at the URSI-RCRS 2022 conference, which was titled "Digital S.I. Traceability of Time through an Application Programming Interface (API)" and was conducted by IIT Indore.

2020

Certificate of Introduction to Measurement and Metrology by NPL, UK.

2020

Certificate of introduction to Measurement Uncertainty by NPL, UK.

2017

Ranked 3rd (overall) and 2nd (in last 4 semesters) amongst all the students of ICE department.

2017

3rd University rank holder in the eighth semester.

2013

Awarded as Intelligent and Smart student of the year (2012-13).

2010

Awarded L S Gupta memorial award at NPL, India.



## Personal Information

**Father's Name:** Mr. Vikram Singh Yadav

**Mother's Name:** Mrs. Mithlesh Yadav

**Date of Birth:** 13th November 1993

**Languages known:** English, Hindi