

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.



Present
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Mar 2023

Work experience

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.

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



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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

JUNIOR SOFTWARE ENGINEER

SHEETAL ENTERPRISES, Delhi

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Aug 2017

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

Education

2017

B.TECH

Instrumentation And Control Engineering

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2013

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