

# Prasang Srivastava

Senior Software Developer

**Address** Noida, Uttar Pradesh 201301

**Phone** 9897801503

**E-mail** prasangsrvtva@gmail.com

**LinkedIn** [www.linkedin.com/in/prasang-srivastava-85577a119](https://www.linkedin.com/in/prasang-srivastava-85577a119)

I'm a Full Stack Developer at Xtage Labs. 6 years of Python frameworks experience (Django ,FastAPIs& Flask). 4 years of DevOps Experience of CI/CD Tools, and GitHub, Docker,AWS, implemented and managed continuous code build and deployment. Critical thinking Engineer with extensive understanding of high availability architecture and concepts. Purpose-driven professional with capacity to be strong team player plus work effectively independently.

## Skills

Python	<div><div></div></div>
User requirements analysis	<div><div></div></div>
C++	<div><div></div></div>
Docker	<div><div></div></div>
React	<div><div></div></div>
Jira	<div><div></div></div>
Github	<div><div></div></div>
AWS	<div><div></div></div>
OOPS with Python	<div><div></div></div>
Django	<div><div></div></div>
Flask	<div><div></div></div>
FastAPI	<div><div></div></div>
Unit Testing	<div><div></div></div>

## Work History

2022-04 - Current

### Senior Software Developer

*Xtage Labs, Noida, Uttar Pradesh*

- Employed coding practices based on commonly accepted standards to establish site layout and user interface.
- Collected, defined and translated user requirements into project designs and implementation plans.

- Reviewed code to validate structures, assess security and verify browser, device and operating system compatibility.
- Took concepts and produced design mockups and prototypes to strengthen designs, enhance user experiences and improve site interactions.
- Developed continuous improvements and implemented solutions to existing infrastructure, tools and processes.
- Managing AWS assets and integrated multiple AWS resources into solutions appropriate for company projects.
- Designed, developed, modified and debugged programs.
- Handled different client based projects also, developed different Django based APIs, integrated them, and also handled the deployment part and supervised the front-end parts.
- Supervised work of programmers, designers and technicians, assigned tasks and monitored performance against targets.

**2020-12 - 2022-04**

## **Senior Software Developer**

*Orangewood Labs, Noida, Uttar Pradesh*

- Responsible for Software Development and Computer Vision use case implementation on robots to enhance their efficiency and make them smart
- Part of team to develop system based on machine learning algorithm to compensate for cumulative error in any motion transmission system. This invention is "patent pending" with U.S Patent and Trademark Office (USPTO). Worked on software development of a 3 - DOF & 5- DOF Robot.
- Worked on ROS implementation for visualization, kinematics and integration for 5DOF & 6DOF Robot.
- Worked on software development of covid response 3-DOF robotic arm through use of computer numerical control system and Worked on application development for covid response UV Light automated guided vehicle. (Arduino Code + Android app)
- Working on Teleoperation of bot. Anyone from anywhere in world can control bot via website. Used Flask. Handled whole operation single handedly.
- Monitored ongoing operation of assigned programs and responded to problems by diagnosing and correcting logic and coding errors.
- Consulted regularly with internal customers on application development project status, new project proposals and software-related technical issues.
- Reviewed user requirements, analyzed, designed, implemented, installed and delivered training for new applications.
- Adjusted design parameters to boost performance and incorporate new features.
- Monitored automated build and continuous software integration process to drive build/release failure resolution.
- Worked with cross-functional design teams to create software solutions that improved overall functionality and performance.
- Drove project lifespan from concept to final rollout in development and deployment.

- Implemented deployment strategies using container orchestration tools such as Docker.

2018-10 - 2020-11

## Research and Development Engineer

*Orangewood Labs, Noida, Uttar Pradesh*

- Conducted engineering and detailed experimental tests to collect design data and assist in research work.
- Performed validation and testing of engineering models to support adequacy and reformulated models.
- Optimized existing formulation and processes to improve product performance, process robustness and safety.
- Generated engineering and technical documentation to facilitate product development collaboration
- .Worked on development of CNC Software.
- Worked on Sanding Robot frontend and backend.
- Deploying and testing robot in factories and collecting real time data to help improve software.

## Projects

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- **Teleoperation Software** - With this software, we were able to control a robotic arm from anywhere in the world. Used Python Flask framework for making RESTful Web API to collect data sent from the server. Showed and tested this software with different investors and CEOs around the world.
- **ROS Software for Complicated Tasks** - Used C++, Python Django in this project. Robotic Operating System(ROS) was used to make a 3D imaging of the environment around the robotic arm in order to accomplish more complicated tasks like Welding, Picking, etc. Also accomplished forward Kinematics and Inverse Kinematics.
- **Maxus Wallet**- Used Python Django, ReactJS, ChartJS, D3Js. Handled a team of 3 developers here + worked on Backend Side, and assisted on frontend Side. It's a Data Visualization software made for companies so as to manage their expenses, marketing/advertising spends, which gives detailed information about their expenses in tabular form, chart form, etc. Handled the DevOps Side too with AWS and Docker.
- **Pearch** - Used Python Django, ReactJS. Handled a team of 3 developers here + worked on both Backend Side and Frontend Side. Pearch is a search bar optimization tool which caters to users on basis of their personal data, history, orders. Handled the DevOps Side too with AWS and Docker.
- **CECL** - This was for a client- Oliver Wyman. In this, handled the whole Devops process(AWS+ Docker). Tested and made new APIs using Python Django framework, and oversaw the integration of Frontend and backend.
- **Call Report Benchmark**- This software gives the banks flexibility to benchmark against different other banks in different regions on the basis of number of parameters like Employment rate, population, etc. Handled the whole Devops process(AWS+ Docker). Wrote APIs using Python Django from scratch.

- **UTCL** - In this software, I am handling the backend side created with FastAPIs and also handling the whole CI/CD, Devops side of the project interacting with AWS Lambda, ECR,EC2,API gateway.

## Education

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### **B.TECH: Computer Science**

*Jaypee University of Engineering And Technology - Madhya Pradesh*

GPA: 8.4

## Accomplishments

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- Created a robust software testing platform which advanced R&D efforts.
- Developed Teleoperation software which helped in company's ongoing fundraising rounds.
- Gave a demo of this product to multiple founders in Silicon Valley.
- Collaborated with team of Verizon by testing the robot on a 5G network.
- Patents- **Systems and methods of compensating for cumulative error in motion transmission systems** - US 62/833,437