



Sudip Kumar Sahu

Python Developer (6 Years)

Portfolio: <https://sudipsahu17.github.io/sudipsahu.portfolio.github.io/>

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PROFESSIONAL SUMMARY

A highly skilled Python Developer with 6 years of experience specializing in backend development, scalable application design, and performance optimization. Currently working at Persistent Systems in the healthcare domain, I lead the development of applications in precision oncology. Previously, I worked at Tata Consultancy Services, contributing to high-impact projects in semiconductor manufacturing and high-performance computing. With expertise in Python, Django, Flask, AWS, and various other technologies, I have a proven track record of delivering high-quality solutions, mentoring junior developers, and driving continuous improvement. Recognized for my performance with multiple promotions and awards. I am passionate about learning new technologies and delivering results that drive business success.

EDUCATION

Bachelor of Technology (Computer Science and Engineering)

2014 – 2018

Institute: Meghnad Saha Institute of Technology (**University** – MAKAUT)

DGPA: 8.53

Post Graduation Diploma (Artificial Intelligence and Machine Learning)

2020 – 2021

Institute: International Institute of Information Technology Bangalore (Part Time – Online)

GPA: 3.41 (On scale of 4)

TECHNICAL SKILLS

Programming Languages:

- **Primary:** Python
- **Secondary:** C, Java, Shell Scripting (Bash)

Web Technologies:

- **Frameworks:** Django Rest Framework, Flask
- **Languages:** JavaScript (Basic), SQL
- **Database:** PostgreSQL

Subjects of Interest

- Data Structure and Algorithms
- Machine learning Concepts (Exploratory Data Analysis, Basic Prediction and Classification Algorithms)

Tools and Platforms:

- **Tools and Technologies:** Git, Docker, AWS (Basic knowledge on - Lambda, S3, ECS, Secret Manager, CloudWatch, SageMaker), Confluent Kafka, Redis, LDAP, SQLAlchemy ORM, REST API, JSON

1. Tata Consultancy Services (4 years)

2018 – 2022

- **Final Designation:** Information Technology Analyst
 - **Job Responsibility:** I have worked as a Python Developer at TCS, contributing to 3 distinct projects. Most of my responsibilities involved backend development, where I focused on designing and implementing RESTful microservices.
 - **Rewards and Recognitions:**
 - Promotions: 2
 - Awards: 4
 - **Projects:**
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1. Chip Optimization (ChipOpt):

- **Description:** Aim of this project is to migrate a Tcl/Tk GUI application to web application. This app is used to optimize the number of semiconductor chips, produced from a single silicon wafer
- **Client:** Texas Instruments Inc.
- **Technology:** Java, Spring Boot Framework, MongoDB, Shell Scripting, Git
- **Duration:** 6 Months

2. Factory Automation Management Services (FAMS):

- **Description:** Our team is responsible for the development and enhancement of an automated application aimed at optimizing the semiconductor manufacturing process, starting from raw silicon wafers. This application functions as an intermediary between the equipment and the database, retrieving data from the database, processing it, and then passing it to the equipment, and vice versa. By doing so, it eliminates the need for equipment engineers to manually input complex parameters, simplifying their tasks and significantly reducing the potential for errors within the system.
- **Client:** Texas Instruments Inc.
- **Technology:** Python, Flask, Shell Scripting, CVS, DB2 (IBM Mainframe DB)
- **Duration:** 2 Years

3. GPU Virtualization:

- **Description:** This project focuses on managing a high-performance computing cluster, enabling users to run resource-intensive programs or by reserving resources (including CPUs, GPUs, memory, etc.) based on their specific requirements. Our team is working on developing a web application to support and streamline these functionalities.
- **Client:** Advanced Micro Devices Inc. (AMD)
- **Technology:** Python, Django Rest Framework, PostgreSQL, Docker, Git/Github, Angular, TypeScript, OpenStack, Slurm
- **Duration:** 1.5 Years

2. Persistent Systems (2+ years)

2022 – Present

- **Current Designation:** Engineering Lead
- **Job Responsibility:** I am currently working as a Senior Python Developer in the healthcare domain, responsible for developing scalable applications, optimizing performance, maintaining code quality, mentoring junior developers, troubleshooting issues, integrating with external systems, and collaborating with cross-functional teams. Additionally, need to stay updated with industry trends and take ownership of key projects to ensure timely delivery.
- **Rewards and Recognitions:**
 - Promotions: 1
 - Awards: 5

- **Projects:**

1. **Ashion Curation and Reporting Engine (ACARE):**

- **Description:** The ACARE platform is a clinical decision support software that streamlines genomic variant annotation, interpretation, and reporting within the sample-to-answer process for Exact Sciences' Precision Oncology portfolio. Integrated into clinical laboratory workflows, ACARE application enhances time efficiency and improves patient care by providing clear reports for oncologists. It also advances precision oncology to help patients receive optimal treatment. The primary users of ACARE include Curation, Pathology, Medical Directors, Laboratory QA, and the Bioinformatics team.
- **Client:** Exact Sciences Corp.
- **Technology:** Python, Django Rest Framework, SQLAlchemy, PostgreSQL, Angular, Docker, Git/Gitlab, Celery, LDAP, Confluent Kafka Topic, AWS (Lambda, ECS, S3, CloudWatch, RDS)
- **Duration:** 2+ Years (Present)

ACHIEVEMENTS

1. **TCS KUDOS Award** - For the best performance in the batch during TCS ILP (2018)
2. **TCS On the Spot Award** - For performing well on account level activity (2019)
3. Received highest level of rating for 3 consecutive years in TCS (2018-2021)
4. **TCS Learning Achievement Award** - For my dedication and keen interest towards continuous learning (2021)
5. **TCS Service and Commitment Award** - For completing successful 3 years of service in TCS (2022)
6. **Persistent Bravo Award** – For the commitment to succeed, going above and beyond the expectation (2023)
7. **Persistent Bravo Award** – For participating and successfully completing the Persistent internal hackathon (2024)
8. **Persistent Top Talent Award** – For being identified as one of the top performers (2024)
9. **Persistent High-Five Award** – For participating and successfully completing Advent of Code 2024 Contest (2025)
10. **Persistent Bravo Award** – For successfully delivering my job within timeline and with quality (2025)
11. Received 3 promotions till now in my career with 6+ years of experience

CERTIFICATIONS

1. C & Data Structure Certification, certified by IIT Madras (NPTEL - 2016)
2. Python & Data Structure Certification, certified by IIT Madras (NPTEL - 2018)

INTERPERSONAL SKILLS

1. Ability to quickly build up a good relationship & set up trust with team members
2. Confident, Determined and Self-motivated team player
3. Keen to learn new skills and implement those efficiently in real life
4. Good with brainstorming and problem solving