

# Biswajit Satapathy

Software Engineer

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I am Biswajit Satapathy, currently working as a python backend developer. I am open to learn new technologies and stacks with complete dedication to professional work.

## EXPERIENCE

**Software Developer, AppviewX**  
02/2022 – present

**Project: ADC+ Out of Box (OOB) - Automation/Orchestration**

- Developed Python scripts for data parsing between GUI and other services at **AppViewX**,
- Created workflows with **MongoDB**, **hooks**, and **load balancing devices**.

**Nginx Automation:**

- Built a dynamic CRUD system from scratch, enabling communication with multiple Nginx devices and full customization of back-end upstream servers (e.g., **Profile**, **SSL Certificate**, **Health monitor**, **weights**, **backup**).

**Multiple Vendors:**

- Reduced the **time complexity** for profile addition in **F5** Vendor from  **$O(n^2)$**  to  **$O(n\log n)$**  by introducing a sorting-based approach and utilizing binary search to enable more efficient merging and comparisons.
- Worked on load-balancing vendor **Citrix** for handling advanced Parameters and all forms of dynamic modifications via **API** using the payloads that are generated based on the user input.

**Kube+ Certificate Lifecycle Management:**

- Designed and implemented a user interface for selecting and saving certificate options, triggering a Python script that interacts with an SDK to update the database.
- Developed methods to fetch data from the database, allowing the UI to pre-select options and fields based on stored information.
- Implemented workflows for automated Kubernetes cluster deletion based on user-selected parameters, incorporating complex logic for optimal cluster selection.

**Tech-Stack Used:** Python, MongoDB, Git, Jenkins, API - REST, Kubernetes, LinuxOS, Jira

**Personal Projects:**

**Ecommerce Shopping**

- Fully functional Ecommerce web application with features of search, filter, and pagination of products.
- The user can log in/Register (Forgot Password), selects a product- add to cart, check out, and proceed for payment(using stripe) and can view order status.
- The admin login has an additional dashboard where the orders received can be processed to shipping and delivered. The admin can see all the users, products, and stocks, reviews, can create a new product, can make a user an admin.
- The web application supports the update of Profile name, picture, and password and is responsive to web and phone screens.

**Tech Stack:** MongoDB, Express, React, Node

## SKILL

- C/C++
- Python
- Data Structures and Algorithm
- No SQL(Mongo)
- Object Oriented Programming
- MERN Stack

## Education

**MS in CS**

Boston University  
(2024-Present)

**B.Tech in CSE**

VIT Chennai(2018-2022)  
GPA: 8.54

**XII - CBSE (2018)**

95.2%

**X - CBSE (2016)**

CGPA - 10

## Awards

**Winner of Smart India**

**Hackathon(SIH).**

**Winner of Android Owasp**  
**Hackathon, HackerEarth**

## Publications

**Integration of Lazy Learning**  
**associative Classification with**  
**KNNalgorithm, IEEE**

## Certificates

**Algorithm Toolbox, Coursera**