Biswajit Satapathy

Software Engineer

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Linked in

I am Biswajit Satapathy, currently pursuing Master's in Computer Science at Boston University with previous work experience as a Software Engineer. I am open to learn new technologies and stacks with complete dedication to professional work.

WORK EXPERIENCE

Software Developer, AppviewX
02/2022 – 06/2024

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(nlogn)** by introducing a sorting-based approach and utilizing binary search to enable more efficient merging and comparisons, reducing execution time by approx. 30% for 10,000+ devices.
- 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 script that interacts with the 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,Java, 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 (MERN)

SKILL

- C/C++
- Python
- Java
- Data Structures and Algorithm
- Database Management
- No SQL(Mongo)
- 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