

BISWAJIT SATAPATHY

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EDUCATION

Master of Science in Computer Science

Boston University, Boston

Sep 2024 - Present

Courses:

- Object Oriented and Design Principles in Java
- Database Management System in C++
- Graduate Algorithms
- Distributed Systems in Go

Bachelor of Technology in Computer Science and Engineering

Vellore Institute of Technology, Chennai, India

Aug 2018 - May 2022

GPA: 8.54/10

Hackathons: [Smart India Hackathon](#) , [Hackerearth](#)

Publications: [Integration of lazy learning associative classification with kNN algorithm](#)

PROFESSIONAL EXPERIENCE

Software Developer

AppViewX Pvt. Ltd, India

Feb 2022 - June 2024

- Implemented a user-friendly interface using **Python** supporting **CRUD** functionalities of **Nginx devices**, empowering teams to effortlessly manage over **1,500 unique upstream configurations**, which directly addressed key pain points, significantly improving service uptime.
- Optimized profile addition for **F5 load balancing devices** by transitioning the time complexity from **$O(n^2)$ to $O(n \log n)$** using a **sorting-based approach** and **binary search** in **Java**. This enhancement reduced execution time by nearly **30%** for managing **10,000+ devices**, significantly improving operational speed and scalability.
- Streamlined the flow of information between the **AppViewX GUI** and various **backend services**, improving system efficiency, reducing manual intervention that previously required around **50 hours** of monthly work.
- Built an end-to-end flow for selecting and saving certificate options that seamlessly triggers **backend processes** interacting with the **Python SDK** to update the **database**. This solution enhanced the user experience for critical customers and eased out the management of over **50,000 certificates**.
- Developed **automated workflows** for **Kubernetes cluster deletion** based on **user-selected parameters**, incorporating **complex logic** for optimal cluster selection. Additionally, created methods to **fetch** and **pre-select data** from the database and implemented several **backend APIs** using **Java** to perform these tasks, ensuring accurate configurations.

Research Intern

K7 Computing Pvt. Ltd, India

Feb 2021 - April 2021

- Used **Machine Learning** to source and classify various cyber threats using basic **python** scripts and database tools.
- Conducted comprehensive data analysis on a dataset of **10,000+ rows** to identify patterns in cyber threats, refining classification algorithms and achieving a **15% improvement** in performance.

PROJECTS

Ecommerce Shopping

Dec 2021 – Jan 2022

- Developed a fully functional **e-commerce web application** with robust **search**, **filter**, and **pagination** features, enabling users to log in or register, manage accounts, select products, and complete purchases using **Stripe** for secure payment processing.
- Developed an **admin dashboard** that supports order processing and management of products, users and stock. Admins can handle reviews and create new products. Additionally, implemented features for users to update their **profile name**, **picture**, and **password**, ensuring the application is **responsive** for both web and mobile devices.

SKILLS

C++, Java, Python, Go Lang, MongoDB, Git, Jenkins, API - REST, Kubernetes, LinuxOS, Jira

ADDITIONAL EXPERIENCE

Active Member of IEEE Computer Society

Member of Marketing Team at Qubit, VIT