

BISWAJIT SATAPATHY

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EDUCATION

Master of Science in Computer Science

Sep 2024 - Present

Boston University, Boston

Courses:

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

Bachelor of Technology in Computer Science and Engineering

Aug 2018 - May 2022

Vellore Institute of Technology, Chennai, India

GPA: 8.54/10

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

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

PROFESSIONAL EXPERIENCE

Software Developer

Feb 2022 - June 2024

AppViewX Pvt. Ltd, India

- Built a **dynamic CRUD system** for flexible management of Nginx devices, enabling comprehensive customization of upstream server configurations which improved **operational agility**.
- Improved the efficiency of profile addition for F5 devices by transitioning from **$O(n^2)$** to **$O(n \log n)$** through a **sorting-based** approach and **binary search**. This optimization reduced execution time by approximately **30%** for managing over **10,000** devices, significantly enhancing operational speed and scalability.
- Streamlined the flow of information between the **AppViewX GUI** and various **backend** services, improving system efficiency and significantly reducing **manual intervention**.
- Designed and implemented an **intuitive user interface** for selecting and saving **certificate options**. This interface triggers backend processes that interact with the **SDK** to update the **database**, enhancing user experience and operational efficiency.
- 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**, streamlining the user experience and ensuring accurate configurations.

Research Intern

Feb 2021 - April 2021

K7 Computing Pvt. Ltd, India

- Used **Machine Learning** to source and classify various cyber threats using basic **python** scripts and database tools.
- Conducted **comprehensive data analysis** to identify patterns in **cyber threats**, refining **classification algorithms** for improved performance.

PROJECTS

Ecommerce Shopping

Dec 2021 – Jan 2022

- Developed a fully functional e-commerce web application with **search**, **filter**, and **pagination** features. Users can log in or register, manage accounts, select products, and complete purchases using Stripe for payment processing.
- Developed an **admin dashboard** for order processing and managing users, products, and stock. Admins can handle reviews, create products, and promote users. 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 Market Team at Qubit, VIT