

# Debasish Biswas

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## EDUCATION

**National Institute of Technology, Jamshedpur, India** 2021–24

Master's of Computer Application (MCA) CGPA: 8.0

**Siliguri College ( North Bengal University )** 2018–21

Bachelor of Science with Computer Science Major CGPA: 8.7

## OpenSource EXPERIENCE

**Google Summer of Code 2023**

May – Aug 2023

**Knative under CNCF**

[eventing-kafka-broker/Issue #2928](#)

- Implement Knative Kafka Broker data-plane communication with the native Apache Kafka client library and Vert.x Kafka client library.
- Develop the solution using **Java 19+** and leverage the advanced features of **Project Loom**, specifically **virtual threads**, for efficient and concurrent communication with the Apache Kafka cluster.
- Collaborate with a team of developers to deliver high-quality code contributions.

TechStack learned & use: **JAVA 20**, **Vert.x**, **Kubernetes**, **Apache Kafka**, **GoLang**.

## PROJECTS

**Question Book**

[github.com/debasishbsws/question-book](https://github.com/debasishbsws/question-book)

*ExpressJS, MongoDB, GraphQL, GitHub-Actions*

- Designed and develop a high-performance Node.js Backend Rest API, enabling seamless access to University Info & Question Papers stored in a public GitHub repository using GitHub GraphQL API.
- Implemented **Continuous Integration** to utilize a Python Script to automatically update the database for every Pull Request that adds new question papers to the repository.
- Automated the Docker image creation and deployment process, ensuring smooth integration by leveraging DockerHub.

**My Portfolio**

[github.com/debasishbsws/debasishbsws-protfolio](https://github.com/debasishbsws/debasishbsws-protfolio)

*NodeJS, GitHub-Actions, Docker, Kubernetes*

- Developed and deployed a Node.js website with a streamlined CI/CD pipeline using **GitHub Actions**. The pipeline included **automated testing**, **Docker image creation**, and pushing to the DockerHub registry, significantly reducing management time.
- Deploy the application on a **Google Kubernetes Engine (GKE)** cluster for seamless scalability and efficient management.

## SKILLS

- **Programming Language:** JAVA, GoLang and Basics of Python, JavaScript & Bash scripting.
- **DevOps Tools:** Git, GitHub-Actions, Docker, Kubernetes.
- **OS:** Linux (Ubuntu), Windows.

## EXTRACURRICULAR

**Music:**

- I play Guitar almost for 5 years and had a YouTube Channel with 14K subscribers.

**Photography:**

- A landscape photographer with a passion for capturing the beauty of natural landscapes.
- Actively sharing insights and guiding photographers as a member and instructor of the NITJSR Photography Club, **Phocus**.
- You can see my photographs at [Instagram/@debasishbsws](#)

## Other OpenSource Contributions

**The/Algorithms**

- Contributor and Maintainer of the [JAVA repository of The/Algorithms](#) a 50k+ ★ GitHub project.

**Knative**

- **Fix:** KafkaSink ContentMode not checking
- **Fix:** Experimental filters AnyFilter working bug
- More on GitHub