

Debasish Biswas

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EDUCATION

Master's of Computer Application (MCA), NIT Jamshedpur

CGPA: 8.0 2021- Present

Bachelor of Science in Computer Science (B.Sc. Honours), Siliguri College (NBU)

CGPA: 8.7 2018-21

RESEARCH WORK:

Fidelity and Entanglement of Random Bipartite Pure States: Insights and Applications <https://arxiv.org/abs/2308.01714>

- Observation of non-uniform distributions and upper bounds based on measuring quantum states' entanglement
- Revealed quantum random number generator potential. Consistent entanglement-fidelity relationship across dimensions.

OpenSource EXPERIENCE

Google Summer of Code 2023

May'23 - Aug'23

Knative under CNCF

summerofcode.withgoogle.com/programs/2023/projects/BHsUqzLn

[JAVA, Vert.x, Kubernetes, Apache Kafka, Bash Scripting, GoLang]

- Implement Knative Kafka Broker data-plane communication with the Apache Kafka client and Vert.x Kafka client library.
- Develop the solution using Java 20 and leverage its new features, specifically Virtual Threads (Loom), for efficient and concurrent communication with the Apache Kafka cluster. That can lead to increasing the performance of the system.
- Collaborate with a team of developers to deliver high-quality code contributions.

The/Algorithms

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

PROJECTS

Question Book [ExpressJS, MySQL, TypeScript, GitHub-Actions]

github.com/debasishbsws/question-book

- Designed and developed a high-performance Node.js Backend Rest API, enabling seamless access to University information and Question Papers stored in a public GitHub repository.
- Implementing Continuous Integration to automatically update the database for every Pull Request that adds new question papers to the repository.
- I automated the Build and Testing of the code and also the Docker image creation process, ensuring smooth integration.

Apache Kafka OAM APP [Shell Script, Docker, Kubernetes, YAML]

github.com/debasishbsws/kafka-OAM-application

- Leveraged OAM (Open Application Model) to deploy Apache Kafka on Kubernetes, enabling a highly abstract and modular approach to application deployment.
- Achieved more streamlined and manageable Kafka deployment with greater flexibility and ease of iteration and scaling by abstracting away the underlying infrastructure complexities.
- Featured in the NAPTIVE catalog for easy access and adoption in the NAPTIVE cloud

SKILLS

- **Programming Language:** Java (proficient), GoLang, JavaScript, TypeScript, Bash script, YAML
- **Tools:** Git (VCS), Docker, Kubernetes, Knative | **Database:** MySQL, MongoDB
- **OS:** Linux (Ubuntu), Windows | **IT Constructs:** OOP, DBMS

CERTIFICATIONS and BADGES

- [Deploy to Kubernetes in Google Cloud - Google Cloud](#)
- [Deploy and Manage Cloud Environments with Google Cloud - Google Cloud](#)
- [Complete Web Development - Udemy](#)

EXTRACURRICULAR

Photography: A landscape photographer by passion. Instagram/[@debasishbsws](#) . Member of Phocus (NITJSR).

Music: A guitarist, Founded a local band with fellow musicians and had a [YouTube Channel](#) with 13K+ subscribers.