

# Tuhin Garai

## Student

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Master's in Computer Application (MCA) student specializing in Storage & Cloud Technologies. Hands-on experience in serverless cloud architecture using AWS. Published researcher with strong interests in DevOps, cybersecurity, and scalable backend systems. Passionate about automation, Linux, and cloud-native technologies.

**Languages & Scripting:** Python, Java, MySQL

**Cloud:** AWS Lambda, API Gateway, S3, DynamoDB, SES

**OS & Tools:** Linux, MS Windows Server, MS Excel

**Concepts:** Serverless Architecture, Real-time Monitoring, REST APIs

**Ethical Hacking from National Institute of Electronics & Information Technology**

NIELIT, Gorakhpur (2021)

**Introduction to Industry 4.0 and Industrial Internet Things**

NPTEL, IIT Kharagpur (2022)

**Build a Serverless EC2 Monitor & Control Dashboard with AWS Lambda, API Gateway, and S3**, *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)* ✉️

- English
- Hindi
- Bengali

**Serverless EC2 Monitor & Control Dashboard**, *(Real-Time EC2 Instance Monitoring and Automation using AWS Lambda, API Gateway, DynamoDB, SES, and S3)* ✉️

- Designed and deployed a fully serverless web-based EC2 instance management dashboard.
- Automated idle EC2 instance monitoring and shutdown based on user-defined thresholds.
- Enabled manual instance control via a responsive frontend interface.
- Prioritized cost optimization, scalability, and production readiness.
- Project developed as part of academic research focused on cloud efficiency.

**Cloud Computing Intern., Tamizhan Skills**

06/2025 – 07/2025

- **Provisioned and deployed scalable web applications** using **AWS EC2, S3, and CloudFront**, ensuring high availability, global performance, and reduced latency.
- **Designed and implemented a serverless contact form** leveraging **AWS Lambda, API Gateway, and DynamoDB**, effectively removing the need for traditional backend infrastructure.
- Gained hands-on experience with **scalable cloud architecture design**, enhancing deployment automation and environment consistency.
- Applied **AWS best practices** in access control by configuring **IAM roles and policies**, and simulated real-world cloud deployment scenarios in a structured training environment.

**Masters in Computer Application (MCA)**, *Jain University*

2024 – Present | Bengaluru, Karnataka

Major: Storage & Cloud Technology, Minor: AI & ML

**Bachelors in Computer Application (BCA)**, *Chandigarh University* ✉️

2021 – 2024 | Mohali, Punjab