

Mo Torab Shaikh (Torab)

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Skills and Interests

Languages: C/C++, Python, Java, JavaScript, TypeScript, NodeJS

Cloud Platforms: AWS (Serverless, AI & Event-driven Stacks, EC2, S3, Lambda, CloudFront, SQS), Google Cloud

DevOps & Infra: Docker, CI/CD, Bitbucket Pipelines, GitHub Actions, NGINX, Redis

Full-Stack: Flask, NestJS, ReactJS, Angular, ExpressJS **Databases:** PostgreSQL, MongoDB, DynamoDB, MySQL

AI & Robotics: PyTorch, CUDA, OpenCV, Multithreading, ROS/ROS2, SLAM, Object Detection, Computer Vision
Tools & Methods: Git, CMake, Linux, API Design, Shell Scripting

Professional and Academic Research Experience

Graduate Research Assistant

Jan 2025 – Present

Advanced Energy Materials and Nanomechanics Lab, UB

Buffalo, NY

- Developed a multi-language package for the tactile sensor for robotic integration.
- Researching and developing models to classify material touched by the tactile sensor.

Tech Lead

Jul 2021 – Jul 2024

Talent Litmus

Mumbai, India

- Led system upgrades and incident management initiatives, reducing technical debt by 70% while increasing system availability to 99.99%.
- Built CI/CD pipelines utilizing Bitbucket Pipeline, decreasing deployment time by 90%; implemented Docker Swarm for load balancing to support 40,000 concurrent users.
- Developed automated monitoring system with real-time downtime reporting, improving incident response.

Senior Software Engineer

Jun 2018 – Jul 2021

Helios Web Services

Jaipur, India

- Contributed to end-to-end application development of core platform of Thinglogix - foundry while using AWS IoT and event driven services.
- Earned "Excellent Technical Player of the Year" (2019) award for outstanding technical contributions.

Projects

Griptape AI

Oct 2023 – Present

Open Source Contribution

Remote

- Developing memory drivers for agentic AI framework Griptape AI

Automated Attendance System

Aug 2020 – Jan 2021

Thinglogix

Jaipur, India

- Built automated attendance system that marks attendance based on employee movements using CCTV camera streams in buses and factory gates to perform face detection and recognition.
- Engineered the multithreaded device-side application to process video streams from multiple cameras and perform on-device inference, and image processing providing edge device computing and reducing cloud computing cost.
- Deployed on edge computing devices like Raspberry PI, and Nvidia Jetson Nano with GPS modules using RTSP and MQTT protocols.

OCR APIs for Document Processing

Jun 2019 – Oct 2019

Thinglogix

Jaipur, India

- Orchestrated a set of APIs that detect a document and automatically fills form reducing time needed to manually fill the information by 90%.
- Trained a Stamp/Signature detection model and deployed it on AWS Lambda reducing cost for inference. This application was able to process PDF files of 500 pages exceeding the client expectation by 400%.

Foundry - Auto-Scalable Multi-Tenant IoT Platform

Jun 2018 – Jul 2021

Thinglogix

Jaipur, India

- Developed a multi-tenant, auto-scaling IoT platform using Angular and AWS serverless stack allowing clients to manage and monitor connected devices and reducing the application development time by 80%.

Education

University at Buffalo

Buffalo, NY

Master of Science in Robotics

Graduation: Dec 2025

- Relevant Courses: Computer Vision and Image Processing, Robotics Algorithms, GPU Programming using CUDA, Deep Learning, Reinforcement Learning

Poornima University

Jaipur, India

Bachelor of Technology in Computer Engineering

Graduation: May 2018

- Relevant Courses: Operating system, DBMS, Computer Networks, Artificial intelligence, Neural Network, Distributed systems, Embedded systems, Cloud Computing