Torab Shaikh

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Skills and Interests

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

AI & Machine Learning: LLM Integration (OpenAI, Anthropic), Agentic AI, PyTorch, TensorFlow, CUDA, Computer Vision, Object Detection, Deep Learning

Full-Stack Frameworks: Angular, Next.js, FastAPI, NestJS, FastAPI

Cloud Platforms: AWS (EC2, Lambda, ECS, S3, CloudFormation, API Gateway, RDS, Sagemaker), Google Cloud

DevOps & Infrastructure: Docker, Docker Swarm, CI/CD, GitHub Actions, Bitbucket Pipelines, NGINX

Databases: PostgreSQL, MongoDB, MySQL, DynamoDB, Redis

Robotics & IoT: ROS/ROS2, Gazebo, SLAM, Edge Computing, MQTT, WebSockets, GPS modules

Tools & Methods: Git, CMake, Linux, API Design, Shell Scripting, Bash, Jira, Agile/Scrum

Professional and Academic Research Experience

Graduate Research Assistant
Jan 2025 – Jan 2026

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*

- Managed a cross-functional team of 6 members, delivering timely results that led to 100% increase in client acquisition. Developed workflows and coding guidelines, performing code reviews that reduced runtime issues and technical debt by 60%.
- 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.
- Hired and coached 3 junior engineers, building a high-performance engineering culture through structured mentorship and process improvement.

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.
- Trained and deployed Deep Learning models for various applications including Computer Vision.
- Created CloudFormation templates for different environments and integrated APIs of Salesforce, and Shopify with the Foundry platform.
- Earned "Excellent Technical Player of the Year" (2019) award for outstanding technical contributions.

Projects

Griptape AI
Oct 2023 – Aug 2025

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 deployed on 150 moving buses processing 3 camera streams simultaneously on Nvidia Jetson Nano devices with face detection, GPS tracking, and robust reconnection logic.
- Engineered multithreaded application with on-device inference and image processing, providing edge computing and reducing cloud costs.

OCR APIs for Document Processing
Jun 2019 – Oct 2019

Thinglogix — *Jaipur, India*

- Trained a Stamp/Signature detection model and deployed it on AWS Lambda. This application was able to process PDF files of 500 pages exceeding the client expectation by 400%.

Education

University at Buffalo
Buffalo, NY

Master of Science in Robotics and AI — *Graduation: Dec 2025*

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

Poornima University
Jaipur, India

Bachelor of Technology in Computer Engineering — *Graduation: May 2018*

- Relevant Courses: Computer Networks, Artificial intelligence, Neural Network, Distributed systems, Cloud Computing