

## MO TORAB SHAIKH(TORAB)

[motorabs@buffalo.edu](mailto:motorabs@buffalo.edu) | Buffalo, NY | +1 7162280082

<https://www.linkedin.com/in/torab-shaikh/> <https://cloudnode.tech>

<https://github.com/torabshaikh>

### EDUCATION

|   |                     |
|---|---------------------|
| University at Buffalo   <i>Master of Science- Robotics</i>   Buffalo, NY  | Aug/2024 - Dec/2025 |
| Poornima University   <i>B.Tech, Computer Engineering</i>   Jaipur, India | Sep/2014 - May/2018 |

### WORK EXPERIENCE

**Talent Litmus** | *Tech Lead* | Mumbai Jul/2021 - Aug/2024  
*An HR tech startup which builds games that help organizations in recruitment and training their employees through video games.*

- Led a team of 6 members in a dynamic and fast-paced startup environment, designing and implementing system architecture and back-end services. Also, held responsibility for key technical decisions that impacted the entire organization.
- Improved deployment processes, reducing time by 90% and increasing system availability to 99.99%. Also, Developed a system for automatic downtime monitoring and reporting and managed incidents and upgraded outdated systems to modern versions and minimized technical debt.
- Maintained and enhanced cloud architecture, implementing single sign-on with Azure AD, and integrated Generative AI into products; created SCORM packages for LMS platforms.
- Developed workflows, coding guidelines, and CI/CD pipelines.
- Conducted hiring processes, including job posting, resume shortlisting, interviews, and onboarding.

**Thinglogix-Helios Web Services** | *Sr. Software Engineer* | Jaipur Jun/2018 - Jul/2021  
*An autoscaling serverless IoT platform that can be used to develop no-code applications.*

- End-to-end development of serverless IoT platform running on top of AWS.
- Development and retraining of Deep Learning models for various applications including Computer Vision.
- Worked with the overseas team to develop and enhance the IoT platform and other solutions.
- Awarded Excellent technical player of the year 2019.

### SKILLS

|                           |   |
|---------------------------|---|
| <b>Languages</b>          | Python, C/C++, TypeScript, JavaScript, NodeJS, Java   |
| <b>Cloud Technologies</b> | AWS(EC2, Lambda, S3, Route53, API Gateway, Cloudfront, Cognito, IAM, CloudWatch, AWS IoT, CloudFormation, Comprehension, Rekognition, textract, SQS, Kinesis, RDS, Sagemaker, DynamoDB, SDK), basic, speech-to-text, OCR) |
| <b>Frameworks</b>         | Angular 2+, NestJS, Pytorch, ReactJS, ROS   |
| <b>Databases</b>          | PostgreSQL, MySQL, MongoDB, DynamoDB  |
| <b>Generative AI</b>      | OpenAI, Stability AI  |
| <b>Deployment tools</b>   | Docker, CloudFormation, Bitbucket pipelines   |
| <b>General tools</b>      | Linux, Git, Visual Studio Code, Postman, Trello, BitBucket, Jira, Github  |
| <b>Other technologies</b> | Oauth2.0 integrations(Stripe, Salesforce, Azure AD), nginx, pm2, RESTful APIs, MQTT messaging, RXJS and reactive programming.   |

### PROFESSIONAL PROJECTS

**Foundry** - Thinglogix-Helios Web Services, Jaipur Jun/2018 - Jul/2021  
*An Auto-scalable multi-tenant IoT platform where the clients can connect their IoT devices to communicate, manage and monitor them.*

- Responsibilities - End to end development and integrations with various systems.
- Technologies used - Angular, RXJS, AWS(Lambda, S3, API Gateway, Cloudfront, Cognito, IAM, CloudWatch, AWS IoT, CloudFormation, Comprehension, SQS, Kinesis, RDS, Sagemaker, DynamoDB, SDK), PostgreSQL, Salesforce single sign-on, Shopify integration, MQTT protocol.

**OCR APIs**- Thinglogix-Helios Web Services, Jaipur Jan/2019 - Apr/2020

*A set of APIs that receive documents in image or PDF format, perform stamp/signature detection, OCR operation after that fill Salesforce form based on the document.*

- Responsibilities - Development and deployment of APIs, Computer Vision model and AWS resources.
- Technologies used - Tensorflow, Image processing, AWS(Lambda, S3, API Gateway, Cloudfront, Cognito, IAM, CloudWatch, AWS IoT, CloudFormation, RDS, DynamoDB, SDK), PostgreSQL.

**Automated attendance system**- Thinglogix-Helios Web Services, Jaipur Aug/2020 – Jan/2021

*An automated attendance system that marks attendance of the employees of a company based on their movements from one factory or bus stop to another. This uses CCTV camera streams in buses and factory gates to perform face detection and recognition.*

- Responsibilities - architected and developed the device side application. This multithreaded application was able to process video streams coming from multiple cameras and do on-device inference.
- Technologies used - Python, AWS(Lambda, S3, API Gateway, IAM, CloudWatch, AWS IoT, SQS, Rekognition, SDK), OpenCV, PyTorch, GPS modules, RTSP protocol, MQTT protocol, CNN, Image processing, Python, Shell Scripting, edge processing devices like - Nvidia Jetson Nano, Raspberry PI, Google Coral TPU.

**Games** - Talent Litmus Jul/2021 - Aug/2024

*Role-playing assessment and learning games that evaluate psychometric attributes of candidates and create a detailed report, and also help them in learning company policies and code of conduct.*

- Responsibilities - Managed and upgraded existing systems, led the technical development and architectural design, built deployment pipelines, refactored code and also reduced technical debt, and delegated tasks to team members.
- Technologies used - NodeJs, AWS(EC2, Route53), ExpressJS, MongoDB, nginx, pm2, Redis.

**Genie** - Talent Litmus Dec/2023 - Aug/2024

*A platform that can let users create their own learning based games by generating content from Generative Artificial Intelligence.*

- Responsibilities - spearheaded the development and architecture and the entire project and actively participated in feature development; Also integrated generative AI technologies like OpenAI and Stability AI.
- Technologies used - ChatGPT APIs, NodeJs, AWS(EC2, Route53), MongoDB, NestJs, nginx, Redis.

## **OPEN SOURCE PROJECTS**

---

**Griptape AI** Oct/2023 - present

- A modular open-source framework designed for large language models (LLM) based agents, pipelines, and workflows.
- Technologies used - Griptape AI, Python, Large Language Models, Redis

## **ACHIEVEMENTS**

---

- Four times Secured 1st position in different inter and intra-college chess competitions, 2014-2018
- Secured 1st Position in Himalaya Hostel Fest Sudoku Competition 2016.
- Nation-wide winner (with 3 Person Squad) for the Hackathon for the PwC Deep Learning Challenge 2017.