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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 took 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 Also, Developed a system for automatic downtime monitoring and reporting and managed incidents and upgraded outdated systems to modern versions and minimized technical debt.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

Languages	Python, C/C++, TypeScript, JavaScript, NodeJS, Java
Cloud Technologies	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)
Frameworks	Angular 2+, NestJS, Pytorch, ReactJS, ROS
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB
Generative AI	OpenAI, Stability AI
Deployment tools	Docker, CloudFormation, Bitbucket pipelines
General tools	Linux, Git, Visual Studio Code, Postman, Trello, BitBucket, Jira, Github
Other technologies	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.