

# RITIKA MOTWANI

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## EDUCATION

### New York University - Courant Institute of Mathematical Sciences

Master of Science, Computer Science

Expected May 2024

New York City, NY

**Course Work:** Fundamentals of Algorithms, Programming Languages, Database Systems

### Indian Institute of Information Technology Allahabad

Bachelors of Technology in Information Technology with honors. GPA : 8.87/10

2015 - 2019

Prayagraj, India

## WORK EXPERIENCE

### Glints

Software Engineer (Team Lead)

Aug 2019 - July 2022

Singapore

- Built an internal platform for the recruiters to search, filter, source candidates from the 5 million candidates database the company owns and later managed them in different pipeline stages. Added a feature to post the recruiter-client jobs in different permitted websites and built a flow around it for external applications.
- Responsible for the software architecture and schema designs of all the features in the team. Maintained high data integrity standards which later became the cornerstone of future business strategies.
- Assisted in building a highly autonomous scrum team from scratch in the organization that upheld high engineering and data integrity standards.

### Temasek Labs, Nanyang Technological University

Research Assistant (Speech Processing group)

Jan - May, 2019

Singapore

- Worked in the Multimedia and Interactive Computing Lab to assist with developing a private automatic speech recognition system (Speech APIs) for several privacy sensitive use cases. NDA signed.

### Google Summer of Code

with FOSSASIA

Jun - Aug, 2018

- Created open sourced event manager using REST APIs, Postgresql and EmberJS. Created different flows for organisers to add their events with sessions, speakers and a proper scheduler displaying all sessions for the days of the event and the flow for attendees to search for events and register themselves.
- The project is now live and being used by organisations like Fossasia, RedHat, NextCloud to add their conferences and sell tickets.

## PUBLICATIONS

Khare, Abhinav, Motwani, Ritika, Patil, Jayesh, Akash, S., Kala, Rahul "Learning the Goal Seeking Behaviour for Mobile Robots." 2018 3<sup>rd</sup> Asia-Pacific Conference on Intelligent Robot Systems (ACIRS). IEEE, 2018.

## SELECTED PROJECTS

### Verifiable IoT Data Exchange

Indian Institute of Information technology, Allahabad

- Semester project which iterates on the data verification wizard developed. It combines the wizard with the distributed database - bigchaindb and runs on a cluster of nodes. The platform allows the users to confidently sell and exchange data on account of it being verifiable.

### Regression based Motion Planning

Indian Institute of Information technology, Allahabad

- Implemented a neural network to simulate a robot to navigate obstacles and reach its goal using reinforcement learning. Compared results and accuracy by contrasting supervised learning approach with reinforcement learning approach. The work has been published by IEEE.

## HONORS & AWARDS

- **Open Source Conferences:** Got scholarships for travel and stay to the FOSSASIA Summit in Singapore and Linux Open Source Summits in Tokyo and Paris.
- **Hackathon:** Won the best team award in Hack In The North, IIITA. Won the internal Glints hackathon. The project was later used by the company to improvise and launch as a feature.

## SKILLS

Python, C, SQL, javascript, CSS, HTML, GraphQL, Docker, Typescript, EmberJS, Flask, ReactJS, Redux, NodeJS, Git, NextJS, Postgresql