

## EDUCATION

- Master of Science (M.S.) in Computer Science and Engineering** (GPA: 3.53/4.00) (Aug '21 – expected Dec '22)  
University at Buffalo, State University of New York
- Bachelor of Technology (B.Tech.) in Electronics Engineering** (CGPA: 8.96/10.00) (Aug '17 – May '21)  
Sardar Patel Institute of Technology (S.P.I.T.), Mumbai.

## EXPERIENCE

- Software Development Engineer Intern — Amazon Inc.** (May '22 – Aug '22)
- Worked as an SDE I Intern in AWS DocumentDB.
  - Created an automation script to extract the timestamp of when the issue was reported from the ticket's description using RegEx and then automatically attach relevant logs for the reported timestamp to open tickets by sending PUT requests to the ticket's attachments.
  - Setup an automated process that runs a script hourly to upsert existing root-cause resolution tickets' data for known issues into a remote database, auto-resolve open tickets by matching log error messages with these existing tickets and posts the relevant correspondence to both tickets.
  - Both these scripts take 1/10<sup>th</sup> the time it would take an engineer to perform these tasks manually.

## PROJECTS

- Raft Consensus Algorithm — Distributed Systems course project.** (Feb '22 – May '22)
- Implemented the Raft consensus algorithm for a cluster of 5 server nodes and 1 client to safely distribute a log of commands across the cluster and ensure that all nodes in the cluster agree upon the same state machine. Multithreading was used to carry out multiple operations at once and the cluster was created using Docker containers as nodes.
- Stanford's Pintos Operating System — Introduction to Operating Systems course project.** (Aug '21 – Dec '21)
- Implemented priority scheduling, priority donation and MLFQS for kernel threads. Implemented support for user programs by implementation of virtual memory and system calls.

## PUBLICATIONS

- J. Bhopale, R. Bhise, A. Mane and K. Talele, "A Review-and-Reviewer based approach for Fake Review Detection," *2021 Fourth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, pp. 1-6, doi: 10.1109/ICECCT52121.2021.9616697.
- A. Mane, J. Bhopale, R. Motghare and P. Chimurkar, "An Overview of Speaker Recognition and Implementation of Speaker Diarization with Transcription," *International Journal of Computer Applications*, vol. 175, no. 31, pp. 1-6, November 2020. doi: 10.5120/ijca2020920867.

## SKILLS

- Programming: Python, Java, C, C++, SQL, R, HTML
- Technologies: PyTorch, TensorFlow, Keras, OpenCV, NLTK, RegEx, REST, Docker, AWS, Git
- Databases: Postgres (PostgreSQL), MySQL
- Areas of expertise: Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning, Artificial Intelligence

## EXTRACURRICULAR ACTIVITIES

- Worked as a Teaching Assistant for the class "Computer and Communication Networks", of 70 students, under Dr. Deepak Karia (HoD – Electronics Engineering, S.P.I.T.) (Jan '21 – May '21)
- Served as the Student Coordinator for Abhyudaya (an NGO educating underprivileged kids) and taught Science and Mathematics to a class of 40 9<sup>th</sup> and 10<sup>th</sup> grade students every Sunday. (Sep '17 – May '21)
- Coordinated with companies as the Department Coordinator of Industry Relations committee, S.P.I.T. (Oct '17 – May '20)
- Handled institute's research resources as member of the Institute's Innovation Council (IIC), S.P.I.T. (Aug '19 – May '20)
- Led a team of 4 in IIT-Bombay's e-Yantra Robotics Competition – qualified for semi-finals. (Oct '18 – Feb '19)