

# Sagar Khuteta

+1-716-495-9628 | [sagarkhuteta26@gmail.com](mailto:sagarkhuteta26@gmail.com) | [Linkedin](#) | [Github](#)

## TECHNICAL SKILLS

---

**Languages:** JavaScript, Python, C, Golang, C#, SQL, Java, Typescript, HTML/CSS  
**Frameworks:** Node js, Next js, Spring Boot, React, Redux, Angular, .NET, Jasmine, Cucumber  
**Cloud Technologies:** AWS(lambda, S3, EC2)  
**Databases:** MYSQL, PostgreSQL, DynamoDB, Redis, Firebase

## WORK EXPERIENCE

---

### CitiusTech

Mumbai

*Software Engineer*

July 2019 – December 2021

Full-Stack Developer, Healthcare Domain, Fortune 500 Company

- Developed a microservice that optimized radiologists' training through seamless video and audio communication along with screen-sharing capabilities using Node js, React, PostgreSQL, OAuth 2.0 and React Testing Library(RTL)
- Incorporated RESTful API into a microservices architecture that optimized radiologists' training through seamless video and audio communication along with screen-sharing capabilities using Jest for unit testing
- Deployed application on AWS, ensuring optimal scalability and reliability

Full-Stack Developer, B2B Healthcare Client

- Migrated Aging and Disability department's legacy application from ASP.NET and Silverlight to .NET core and Angular and MYSQL on the database side.
- **Reduced the application's response time from 1s to 0.7s**
- Created workflows for deployment using Github Actions
- Implemented unit and integration tests and attained a **code coverage of 99.5%**
- Executed automation test scripts in Jasmine to ensure proper working of application

## PROJECTS

---

### Raft | *Golang, Docker*

Oct 2022-Dec 2022

- Built a distributed fault-tolerant system with Raft consensus algorithm for high availability and data consistency
- Implemented leader election mechanism using heartbeat messages and randomized timeouts to prevent split votes
- Executed log replication for total ordering of commands and handling normal/failed nodes for consistency and fault tolerance

### Lip Reading using Deep Learning | *Python, OpenCV, Tensorflow, Java, Spring*

May 2018 – May 2019

- Developed the full-stack and the ML model for an Android App. It read lips movement using facial recognition
- Tested various deep learning algorithms in keras on the dataset to classify lip movements into discrete words
- Achieved an **accuracy of 93.99%** on 10 words using LSTM algorithm and published a **paper** in IEEE

### Pintos Operating System | *C, Docker*

Feb 2022-April 2022

- Developed kernel threads, user program loading and running features for Pintos OS
- Utilized concurrency and memory management techniques to optimize system resources and ensure the absence of deadlocks
- Utilized lazy loading for high availability and efficient resource utilization

### FoodMart | *Angular, Firebase, Protractor*

Feb 2021-May 2021

- Developed a shopping portal using Angular, with features such as product catalog browsing, shopping cart, and checkout process
- Utilized Firebase for secure real-time storage of product data and user profiles
- Implemented end-to-end tests using Protractor to ensure functionality and user requirements were met

## EDUCATION

---

### University at Buffalo, The State University of New York

Buffalo, NY

*Masters in Computer Science*

Jan 2022 – June 2023

- Relevant CourseWork - Algorithms, Operating systems, Computer Networks, Databases, Distributed Systems

### Sardar Patel Institute of Technology

Mumbai

*Bachelors of engineering, Electronics Engineering*

July 2015 – July 2019

- Relevant CourseWork - Structural Programming Approach, Object Oriented Programming, Artificial Intelligence