# Kuni Shah

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# **EDUCATION**

California State University, Northridge

Masters in Computer Science, Cumulative GPA: 3.6/4.0.

Los Angeles, CA, USA August 2021 - May 2023

Pune, MH, India August 2017 - August 2020

# MIT Art, Design, and Technology School of Engineering

Bachelors in computer science, Cumulative GPA: 8.5/10.0.

# PROFESSIONAL EXPERIENCE

**Sharper Shape** 

June 2022 - Present Software Engineer Intern San Jose, CA, USA

- Used Python and AWS CDK to integrate S3, SNS, SQS, and DLQ and Lambda functions to trigger actions depending upon bucket events.
- Integrated Slack SDK to inform company's designated channel upon completion of an S3 event and Lambda failure. Utilized Amazon S3 Usage Report to calculate client based S3 usage. Integrated Prometheus to enable monitoring and alerting with usage data.
- Developed a React interface that enables the import of CSV files before uploading them to an S3 bucket, triggering Lambda functions.
- Built CI/CD pipelines for service & underlying resources, facilitating seamless integration and release of changes.

**Expertrons** 

December 2020 - May 2021 Mumbai, MH, India

Software Developer

- Collaborated with an Agile Scrum team of 6 members in developing a mobile app using Node.js, React, React Native, Typescript, MongoDB
- Implemented video caching, resulting in a 12% reduction in load time, and FFMPEG for video compression, resulting in a 41% reduction in transmission bandwidth.
- Used MongoDB indexing for faster searching and aggregates for complex queries. Contributed to AWS setup and migration, including building microservices and optimizing costs by 10%.
- · Proposed and installed an on-premises version of Sentry for efficient tracking of bugs and issues across all platforms.

Geekwork

December 2019 - March 2020

Mumbai, MH, India

Backend Developer Intern

- Contributed to AGV mobility and collision avoidance while working on ROS, Dijkstra's algorithm, and the A\* algorithm for pathfinding.
- Integrated APIs such as One drive, Google Drive, and Slack.
- Designed an ETL process to extract data from cloud APIs, used Apache Tika to process the data, and stored the results in Elastic Search.

#### **PROJECTS**

Sign Language Detection | ML, LSTM, OpenCV, Mediapipe, Flask, Firestore

November 2021

• Programmed a solution that eases communication with the Deaf and Dumb by translating hand sign language to text and speech. Mediapipe for posing and configuring the baseline Long-Short Term Memory for model with 89% accuracy.

# Swachh - AI-enabled citizen grievance reporting system | CNN, PyTorch, Nodejs

September 2020

• An application that enables a user to report any grievance by clicking pictures, and the system detects the issues using PyTorch and CNN to build image classification with 91% accuracy and reports to nearby authorities depending on the user's location.

### India-location-details - Open-source | JavaScript, Node.js

July 2020

• india-location-details- Developed an NPM package, to find details of Indian regions by zip code, cities, and states.

# Automated Guided Vehicle | ROS, PUB-SUB

March 2020

- Developed an Automated Guided Vehicle utilizing ROS and Python for logistic operations. Created a 2D cost map using lidar sensor data.
- · Acquired proficiency in ROS fundamentals, including working with Lidar, utilizing the publisher-subscriber model for device communication, and sockets. Utilized Lidar data to generate and plot maps of the area. Employed Gazebo for visualization of AGV movements.

### **SKILLS**

- Languages & Databases: Python, Typescript, Javascript, Java, C++ | NoSQL, Cosmos, MongoDB, MySQL, PostgreSQL.
- Web Frameworks & Libraries: Node.js, REST APIs, GraphQL, React, Redux-Saga, Next JS, Flask, Django, HTML, CSS3, Bootstrap.
- Others: System Design, Database Design, Git, AWS, Google Cloud, ElasticSearch, Scikit-learn, Numpy, OpenCV, Matplotlib, Fastai, Tensorflow, Docker, Terraform, Kubernetes, Prometheus, Firestore, Firebase, Postman, Jenkins, Jira, Sentry, FFMPEG, ROS, Microservice architecture pattern.