

# Kunj Shah

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## EXPERIENCE

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### Sharper Shape

Software Engineer Intern

June 2022 – Present

San Jose, USA

- Used Python and **AWS CDK** to integrate **S3**, **SNS**, **SQS**, and **Lambda** functions and **DLQ** to trigger actions depending upon bucket events.
- Integrated Slack SDK to notify the channel about the completion of an S3 event and Lambda failure.
- Developed a React interface to import and validate CSV files before uploading the file to an S3 bucket which invokes Lambda functions.

### Expertrons

Software Developer

December 2020 – May 2021

Mumbai, India

- Collaborated with a team of 6 people following **Agile Scrum** methodology to develop a mobile app using **MERN stack React Native, Redux-Saga**, and **NodeJS** for the backend Rest APIs.
- Implemented **video caching** to reduce the application's load time by 12%. **FFMPEG video compression** resulted in a **41% reduction** in transmission bandwidth.
- Integrated **MongoDB** indexing for quicker searching and **aggregates** for complex querying.
- Involved in **AWS setup and migration**, including building **microservices** and **optimizing costs** by 10%.
- Proposed and Installed an on-premises version of Sentry for tracking bugs and issues across all platforms.

### Geekwork

Backend Developer Intern

December 2019 – March 2020

Mumbai, India

- 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

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### Sign Language Detection

November 2021

- Programmed a solution that eases communication with Deaf and Dumb by translating hand sign language to text and speech. Mediapipe for posing and LSTM for ML model with 89% accuracy.

### Swachh - AI-enabled citizen grievance reporting system

September 2020

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

### India-location-details - Open source

July 2020

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

### Automated Guided Vehicle

March 2020

- Industrial Automated guided vehicle built on ROS and python for logistic operations.
- Gained knowledge about ROS fundamentals, the publisher-subscriber model to communicate between devices and sockets.

### Billing Software

July 2017

- The Billing software handles stock management, Bill generation, CRM, taking backups, notifying for overdue bills, and giving statistics.

## EDUCATION

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### California State University, Northridge

Masters of Science

August 2021 – May 2023

Los Angeles, CA

- Major in Computer Science, Cumulative GPA: 3.6/4.0.
- Relevant Coursework: **Data Structures and Algorithms**, Software Engineering; OS, Machine Learning, Advance web, and Cloud.

### MIT Art, Design and Technology School of Engineering

Bachelor in Computer Science

August 2017 – August 2020

Pune, MH, India

- Major in Computer Science, Cumulative GPA: 7.19/10.0.

### SVKM's Shri Bhagubhai Mafatlal Polytechnic

Diploma in Computer Science

August 2014 – May 2017

Mumbai, MH, India

- Major in Computer Science, Cumulative GPA: 8.2/10.0.

## SKILLS

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- **Languages & Databases:** Python, Javascript, Java, C++ | MongoDB, MySQL, PostgreSQL.
- **Web Frameworks & Libraries:** NodeJS, REST APIs, GraphQL, React, Redux-Saga, Flask, Django, HTML, CSS3, Bootstrap.
- **Others:** System Design, Database Design, Git, AWS, CDK, ElasticSearch, FastAi, Tensorflow, Docker, JSON, Firebase, GCP, Postman, Jenkins, Jira, Sentry, Colab, FFMPEG, ROS.