

# Kunj Shah

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## 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, HTML5, Tailwind, CSS3, Bootstrap, FastAi, Tensorflow.
- **Others:** System Design, Database Design, Git, AWS, ElasticSearch, Kibana, Docker, JSON, Firebase, GCP, Postman, Jenkins, Jira, Sentry, Colab, FFMPEG, ROS, OS: Linux, macOS. Practicing competitive programming on leetcode and codeforces.

## EXPERIENCE

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### Expertrons

Dec 2020 – May 2021

Software Developer

Mumbai, India

- Collaborated with a six-person **team** 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 10%. FFMPEG **video compression**, which resulted in a **50% reduction** in transmission bandwidth. Also used React for admin panel's front end.
- Worked with **MongoDB** indexing and **aggregates**, as well as writing scripts to automate activities.
- Actively involved with **AWS setup and migration** which included making micro services, cost optimizations, setting up lambda services, etc. Also setup an on-premises version of Sentry for tracking issues.

### Geekwork

Dec 2019 – March 2020

Back-end Developer Intern

Mumbai, India

- Contributed to the development of AGV mobility and **collision avoidance** through working on **ROS**, Dijkstra's algorithm and A\* algorithm were used for path finding.
- Integrated APIs such as One drive, Google Drive, and Slack added .
- Learned to get data and files via cloud APIs, process them with Apache Tika, and then store them in **Elastic Search**.

## PROJECTS

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### Sign Language Detection

November 2021

- Developed a solution which eases communication with Deaf and Dumb by translating hand sign language to text and speech. Mediapipe for posing and LSTM for ML model.

### Swachh - AI enabled citizen grievance reporting system

September 2020

- An Application which enables user to report any grievance by clicking picture and the system detects the issues using image classification and reports to nearby authorities depending on user's location.

### India-location-details - Open source

July 2020

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

### Nibodh - Portal for searching schools

May 2020

- A Platform where parents can search best fit for their children. Implemented indexing for getting quick results while searching schools.

### Automated Guided Vehicle

March 2020

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

### Billing Software

July 2017

- Billing software that handles stock management, Bill generation, CRM, adding products, taking backups, notifying for the overdue bills, giving statistics, generation of bills, etc.

## EDUCATION

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### California State University, Northridge

Expected May 2023

Masters of Science

Los Angeles, CA

- Major in Computer Science, Cumulative GPA: 3.9/4.0.
- Relevant Coursework: **Data Structures and Algorithms**, Software Engineering; OS, Machine Learning, Advance web and Cloud.

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

August 2017 - August 2020

Bachelor in Computer Science

Pune, MH, India

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