

Kunj Shah

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SKILLS

- **Languages & Databases:** Python, Javascript, Java, C++ | MongoDB, MySQL, PostgreSQL.
- **Web Frameworks & Libraries:** NodeJS, REST APIs, GraphQL, React, Redux Saga, Flask, Django, WebSockets, HTML5, CSS3, Bootstrap, AJAX, jQuery, FastAi, Tensorflow.
- **Others:** System Design, Database Design, Git, AWS (Lambda, S3 Buckets, DynamoDB, Lambda, API Gateways, Spark, Hive), ElasticSearch, Kibana, Docker, JSON, Firebase, GCP, Postman, Jenkins, Jira, Sentry, Colab, FFMPEG, ROS, OS: Linux, macOS. Practicing competitive programming on leetcode and codeforces.

EXPERIENCE

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

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

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.