Kunj Shah

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SKILLS

- **Languages & Databases**: Python, Javascript, Java, C++ | MongoDB, MySQL, PostgresSQL.
- **Web Frameworks & Libraries:** NodeJS**,** REST APIs, GraphQL**,** React, Redux Saga, Flask, Django, HTML5, Tailwind, CSS3, Bootstrap.
- **Others**: System Design, Database Design, Git, AWS, ElasticSearch, FastAi, Tensorflow, 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** following **Agile Scrum** to develop a mobile app using **MERN stack React Native, Redux Saga**, and **Node.js** 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.
- Handled setting up an on-premises version of Sentry for tracking issues.

Geekwork   **Dec 2019 – March 2020**
Back-end Developer   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 202**1
- 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.