

# Dev Kansara

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## EDUCATION

### University of Southern California, USA

August 2023 – May 2025

Master of Science: Computer Science

### Shah and Anchor Kutchhi Engineering College, Mumbai, India

May 2023

Bachelor of Information Technology with *Distinction*

(CGPA 3.73/4)

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Software Engineering, Operating System, Artificial Intelligence and Data Science, Web Technologies

## SOFTWARE SKILLS

- Technical Languages: C, C++, Java, Python, R, SQL, SwiftUI, GoLang
- Web Technologies: HTML, CSS, JavaScript, HTTP, REST, Django, Flask, Streamlit, React, Node.js, Angular
- Tools & Software: Android, Kafka, Weka, Docker, AWS, Kubernetes, MySQL, MATLAB, GIT, Agile, Arduino, Linux, Testing

## PROFESSIONAL EXPERIENCE

### Vision Mechatronics Pvt. Ltd, Mumbai, India (Project Developer)

October 2022 – April 2023

- Developed Python modules with custom algorithms for robust pattern detection in sensor recordings from lithium-ion batteries, identifying continuous increasing or decreasing trends and other behavior tags, achieving a 15-hour weekly reduction in manual intervention
- Ensured continuous device monitoring for 10+ clients by showcasing anomalies and behavior trends on UI using JavaScript APIs like Canvas which pulled data from backend using Django framework

### ConnectWise, Mumbai, India (Software Engineer, Intern)

June 2022 – August 2022

- Acted as a technical leader to ensure 100% tamper-proofing of their platform agent, safeguarding data processing endpoints and their secure connection to the backend using Security Descriptor Definition Language (SSDL)
- Architected and implemented 4+ modules using GoLang for agent control, enhancing system security and operational efficiency that publishes tampering events to Kafka topics
- Conducted thorough unit, smoke, and integration tests with a code coverage of 90%

### Our Global Services, LLC, New York City, USA (Remote) (Research contributor Intern)

May 2020 – July 2020

- Curated a dataset by scraping websites like WITS, UN Comtrade, etc. using Python tools to analyze impact of external factors like covid-19 on world's imports and exports to facilitate early prediction of mishaps in global trading
- Collaborated seamlessly with 3 cross-functional sources to optimize platform architecture and functionality using distributed frameworks like Dask and Hadoop for data collection from disparate sources
- Processed and visualized trade data using Weka for Exploratory Data Analysis, uncovering latent correlations and insights

## ACADEMIC PROJECTS

### Stock Trading Platform

- Developed a comprehensive native iOS stock trading application using SwiftUI, integrating FintHub APIs for real-time data, and facilitating virtual trading functionalities.
- Enhanced application performance by implementing Alamofire for networking, SwiftyJSON for efficient JSON parsing, and Kingfisher for optimized image caching.

### Blood Bank: A Blood management app

- Collaborated with 4 developers to build an android app using Android Studio and Firebase, streamlining student registrations for college blood donation camp
- Facilitated a 10% surge in blood donation appointments by enhancing participant engagement through user-friendly interface

### Environmental caption Generation for visually disabled

- Prototyped a Tensorflow-based solution using VGGNet and LSTM on Flickr30k that captures environmental snapshots and describes it aloud to the user, that helped 10+ visually impaired students of college
- Attained a BLEU-1 score of 0.51 in generating contextual environmental captions for individuals with visual impairments

## PUBLICATIONS

- Copyrighted Code for "Simulation of Simple Parity Check" (Copyright Office Government of India, June-2021, Registration Number SW-14673/2021)
- Authored "Image Gallery" (International Journal of Scientific Research in Computer Science, Engineering, and Information Technology, Nov-Dec 2020, Volume 6, Issue 6, Pages: 334-338)

## EXTRA-CURRICULAR & HONORS

- Volunteered at Sarve Sukhi Trust NGO; surveyed rural Gujarat school principals on infrastructure and computer literacy, and assisted in building computer networks.
- Secured 1st rank out of 120 students during second year examination held in academic year 2020-2021