

DEVYASH SHAH

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EDUCATION

North Carolina State University
MS in Computer Science

Aug. 2024 - May 2026*
Raleigh, NC

School of Engineering and Applied Science (SEAS), Ahmedabad University
B Tech in Computer Science and Engineering

Aug. 2020 - May 2024
Ahmedabad, Gujarat

TECHNICAL SKILLS

Languages: Python, C, C++, Java Embedded C, R, MySQL, HTML, CSS, Octave, Latex

Tools and Libraries: Android Studio, Arduino, Firebase, Flask, Gephi, NetworkX

EXPERIENCE

Intern at Bhaskaracharya National Instit. for Space App. and Geo-info.
Science & Technology Department, Govt. of Gujarat

Dec. 2023 - May 2024
Gandhinagar, India

- Developed an Android application to improve agricultural productivity by enabling real-time pest detection and classification using integrated Deep Learning models.
- Achieved an accuracy of 97.6% in the classification of 15 major pest types in paddy crops with a processing time of 160-190 ms per frame.


Software Engineering Intern
Maverick Events PVT LTD

May 2023 - July 2023
Ahmedabad, India

- Developed a unified event management system to reduce inefficiencies in scheduling with real-time updates, and data reporting using Flask, SQLite and Amazon SNS.
- Integrated interactive features such as event scheduler to improve communication and user experience, and calendar integration via Google Calendar API for seamless synchronization.
- Reduced administrative workload by 45%, saving up to 15 hours per week through process automation and minimizing scheduling conflicts.

ACADEMIC PROJECTS

AUVisionX

- Developed AUVisionX , a course registration system using flask that provides real-time course data updates, and integrated a ChatGPT-powered AI chatbot for FAQs, addressing the issues faced by the students from existing registration system AURIS.
- Achieved a P95 response time of 200 ms while effectively handling nearly 3,000 active users, ensuring high performance.

Patient Tracker

- Developed AlzTra, an Android app using Android Jetpack for real-time tracking of Alzheimer's patients, enhancing safety by triggering emergency alerts if patients move beyond a specified radius.
- Implemented role-based access for super users and caregivers, and maintained detailed patient profiles including personal and medical information in the application.

Big-Data as a Service (BDaaS) and Platform as a Service (PaaS) for Scalable data processing

- Designed and implemented a cloud services platform, enabling the extraction and processing of large datasets from third-party platforms like YouTube and Reddit.
- Integrated Hadoop, YARN, Spark, and HBase for enhanced distributed storage, resource management, and in-memory processing, using RPC for client-server communication and SSH for secure data distribution across Ubuntu machines.

EXTRA-CURRICULAR ACTIVITIES

- Worked with the "TIDE Foundation's" EmpowerEd Programme to promote teaching excellence, leadership, and well-being through research, decentralized training, and professional learning communities. Conducted interviews with teachers and students to gather data for improvement in educational techniques.