

DHRUVIL CHODVADIYA

Mobile: +1 (682) 340 0085 | **Email:** dhruvac29@gmail.com | **Portfolio:** dhruvil.vercel.app

LinkedIn: www.linkedin.com/in/dhruvil-chodvadiya | **GitHub:** github.com/dhruvac29

Education

University of Texas at Arlington

Master of Science in Computer Science

August 2023 – May 2025

Arlington, Texas

Dharmsinh Desai University

Bachelor of Science in Information Technology

August 2018 – May 2022

Nadiad, Gujarat, India

Technical Skills

Languages: Python, Java, JavaScript, C/C++, HTML/CSS, SQL

Tools: VS Code, Git, MySQL, SQLite, MongoDB, Postgres, Firebase, Android Studio

Technologies/Frameworks: Linux, NodeJS, Django, Angular, React, Redux, ASP.NET, .NET Core

Experience

Freelance Software Engineer

Software Engineer

May 2022 – December 2022

Surat, India

- Transformed front end of an import-export-trading website, from wire-frame design to seamless server deployment, with 2+ million monthly traffic
- Engineered responsive design elements to optimize usability across devices, fostering user-friendliness
- Reduced average loading time of 8K-row data sets by 50% through code and architecture optimizations, improving user experience and system performance

Space Application Center, ISRO

Research and Development Intern

December 2021 – April 2022

Ahmedabad, India

- Analyzed Martian dataset, including OpenMARS, EMARS, and ISCA framework, to extract insights and enhance understanding of Mars' atmospheric circulation, resulting in a 20% improvement in the accuracy of atmospheric models
- Developed stereo-graphic charts using Python libraries such as NumPy, Pandas, OpenCV, and PyTorch, contributing to a 30% increase in efficiency in investigating windstorm effects on the Polar Vortex
- Employed Python and MATLAB scripting environments to visualize data both theoretically and visually, enhancing comprehension and enabling effective communication of findings
- Demonstrated proficiency in harnessing cutting-edge technologies such as Python, MATLAB, and NetCDF4 for data analysis and visualization, resulting in a 15% reduction in data processing time while improving the quality of insights generated

Projects

Keep In Touch App | *Android Studio, Firebase, JAVA, Google map API*

- Pioneered the creation of an Android application using Java, Firebase, and Android Studio for tourist groups, resulting in a 40% improvement in the overall travel experience
- Engineered a feature-rich suite of functionalities encompassing group creation, member invitations, real-time chatting, location tracking, and seamless image-sharing capabilities
- Developed boundary detection system: Notified leaders and members when exceeding safe zone, expedited lost member retrieval, reducing disorientation by 60%
- Implemented a dependable notification system, delivering timely group updates, boosting app usability and engagement, resulting in 50% increase in user retention
- Spearheaded the implementation of user-friendly features for effortless group formation, extended invitation distribution, and seamless multimedia content sharing, driving a remarkable 70% increase in user engagement within the first quarter

Blogging Web Application | *MongoDB, ExpressJS, ReactJS, NodeJS*

- Created an interactive blog website using ReactJS and MongoDB, where users can publish and explore diverse blogs
- Leveraged MongoDB to streamline blog storage and retrieval, achieving a 30% reduction in page loading times, enhancing site performance, and simplifying the end-to-end blog process for users

All in One Compiler | *NodeJS, JavaScript, jQuery, Ajax, Flex, Yacc, C*

- Designed a web compiler for university students and faculties with 4+ features, including the first & follow, left factoring, left recursion, token generation, and accelerating the learning process
- Conceptualized 2+ improvements to the compiler based on students' feedback leveraging Node, Flex, and C