SUSHRUTH RAO MURAKARE

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EDUCATION

Colorado School of Mines, Golden**,** Colorado.   Dec 2025
Master of Science in Computer Science (Fall 2024)

Visvesvaraya Technological University, Karnataka, India.   Jul 2022
*Bachelor of Engineering in Information Science, **GPA: 3.27***

EXPERIENCE

Graduate Scientific Programmer, Payne Institute, Golden, Colorado.   Sep 2024 - Present
- Working as a full-stack web developer to improve software that maps electric lighting, gas flaring, and wildfires.
- Successfully implemented a new layer to display the latest 2023 data on the map, enhancing the user experience by replacing simple markers with custom icons.
- Improved application performance by testing, fixing multiple bugs, and updating packages.
- Actively investing time to upskill and expanding understanding of the entire software development process.

Senior Developer, Tecnotree Convergence Private Limited, Bangalore, India.   Sep 2023 - Jul 2024
- Contributed to developing a user-end mobile application by introducing major features and fixing bugs.
- Made the application stable by updating several deprecated libraries within a week on joining the project.
- Successfully implemented detox library, an end-to-end automation testing eliminating the need for a tester.
- Won a team award for successfully delivering an SDK with a major feature for client service in Kuwait, resulting in outstanding performance.

Software Developer, **Tecnotree Convergence Private Limited,** Bangalore, India.   Sep 2022 - Aug 2023
- Developed essential features for a user-end web application while actively addressing diverse issues from operational companies such as those in Ghana, South Sudan, Zambia, Kuwait, Oman, Zain Bahrain.
- Utilized GraphQL for consolidating multiple REST APIs throughout the application, eliminating redundant data for enhanced efficiency and improved performance.
- Implemented and maintained web protocols such as HTTP/HTTPS to ensure secure and reliable communication.
- Attained a **'Consistently Exceeds Expectations'** top rating (5 out of 5) from my manager, culminating in a well-deserved promotion.

Intern, Tecnotree Convergence Private Limited, Bangalore, India.   Jan 2022 – Aug 2022
- Gained in-depth insights into core products, client operations, and their needs, bolstered by a **top 5 rank** in Industry-Ready Training, earned through strong internship performance and mentor commendation.
- Contributed to the testing and development of a core product by creating extensive test data through customer registration, and securing a position in the Product Research and Development team.

Frontend Developer, Credental LLC, Utah, USA | Remote.   Oct 2022 – Apr 2023
- Developed the entire frontend for a US-based startup, Credental, collaborating with a team in Lehi, Utah.
- Contributed significantly to real-time app development during off-hours and weekends, gaining practical tech experience and building essential skills as a fresher.
- The project is about to go live in the US and can be accessed through **Credental.net** on the browser.

TECHNICAL SKILLS

Languages: JavaScript, ES6+, Python; **Databases**: MySQL, MongoDB, Postgres.
Web Development: ReactJS, NodeJS, GraphQL, TypeScript, Material UI, Tailwind CSS, HTML, CSS, Bootstrap, Maplibre gl js.
Mobile Application Development: React Native, Native Base, React Native Paper.
Development Tools: VS Code, Android Studio, Apollo Playground, Jira, Git, Reactotron, Jenkins, PgAdmin, Docker

ACADEMIC PROJECTS

Access control system with masked face recognition (Thesis Project)   Dec 2021 – Jul 2022
- Developed an access control system using Python's face recognition library to recognize faces even when partially covered, improving security for masked individuals.
- Evaluated machine learning models (MobileNetV2, VGG19, ResNet50) for mask detection, achieving 90% accuracy with VGG19 and 80% with the other two models.
- Implemented MaskTheFace script to detect facial features and apply masks to images, creating multiple variations for enhanced training data.