

KUMMURU SAI MUKESH

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PROFESSIONAL SUMMARY

Versatile software engineer skilled in Python, React.js, Node.js, Flutter, MongoDB, SQL, and FastAPI. Experienced in building scalable web and mobile applications with modern UI/UX and secure APIs. Proficient in RESTful/WebSocket integration, real-time features, Firebase, and cloud-based storage. Collaborates in agile teams, focused on performance, data integrity, and delivering business impact.

TECHNICAL SKILLS

Programming Languages:

- Python
- JavaScript
- SQL
- Dart
- HTML
- CSS

Frameworks / Technologies:

- React.js
- Node.js
- Express.js
- MongoDB
- FastAPI
- Firebase
- RESTful APIs
- WebSockets
- JWT
- Flutter

Developer Tools:

- Git
- Postman
- GitHub

WORK EXPERIENCE

Organization: National Remote Sensing Centre (NRSC), ISRO

Role: Software Engineer Intern(Python)

Project Title: Spatio-Temporal Gap Filling of Satellite-based Evapotranspiration Data

Employment Type: INTERNSHIP

Duration: Aug 2024 - Sep 2024

- Technologies Used: Python, QGIS, Bhuvan
- Libraries Used: Rasterio, NumPy, Matplotlib, Pandas, Dask
- Developed and implemented a spatio-temporal gap filling algorithm to handle missing data in satellite-based evapotranspiration datasets.
- Processed large-scale 10 years satellite data, improving computational efficiency using the Dask library for parallel processing and big data handling.
- Applied spatial and temporal interpolation methods to impute missing values in satellite datasets.

TECHNICAL PROJECTS

Project Title: GANGS - eCommerce Website Development

Role: Full-Stack Web Developer

- Technologies Used: React.js, Node.js, Express, MongoDB, Git, REST APIs
- Developed a full-stack eCommerce website with a custom REST API and dynamic product display.
- Created custom REST APIs to manage product data, including support for multiple images per product.
- Built interactive features like image sliders, expandable product details, and address management.
- Implemented data encryption and token-based authentication protocols to enhance application security.
- Designed and managed a MongoDB database for storing products, user data.

Project Title: Portfolio Website Development

Role: Frontend Developer

- Technologies Used: React.js, HTML, CSS, JavaScript
- Developed and maintained a user-friendly website built using HTML and CSS for structure and styling, and JavaScript with React.js for enhanced functionality and compatibility.

Project Title: Chit Chat – Real-Time Mobile Chat Application

Role: Mobile App Developer

- Technologies Used: Flutter, Dart, FastAPI, Python, MongoDB, Firebase, WebSockets
- Developed a full-stack real-time chat app with modern UI/UX using Flutter frontend and FastAPI backend.
- Implemented JWT-based secure authentication with OTP verification and password hashing.
- Built REST APIs for user profiles, friend requests, chat history, and presence tracking.
- Integrated WebSocket-based real-time messaging with online/offline status and unread message indicators.
- Enabled profile management with image upload to Firebase Storage and enforced username change cooldown logic.
- Implemented friend request system with pending/accepted states, and Custom notifications for new requests and messages.

EDUCATION

Bachelor of Technology(CSE), Audisankara Institute of Technology	- 7.27 CGPA	2020 - 2024
Intermediate(MPC), Narayana Jr College	- 8.48 CGPA	2018 - 2020
SSC, Ravindra Bharathi School	- 9.0 GPA	2017 - 2018

CERTIFICATIONS & TRAINING

- Engaged in a Full stack web-development internship program at the International Institute of Digital Technologies.
- Certified by IABAC in Data Science Foundation.

INTERESTS

Music, Cricket, Photography, Editing