

Revathy M R

+91 9947263733 | [Mail](#) | [Linkedin](#) | [Github](#)

EXPERIENCE

Webmaster

IEEE CUSAT

Feb. 2025 – Present

CUSAT, Kerala

- In charge of development of community event websites and managing events for IEEE CUSAT SB
- Maintained structured codebase and documentation

Summer Intern

NIT Calicut

May 2024 - June 2024

Kozhikkode, Kerala

- Developed a mobile application focused on enhancing the safety of women in society using flutter.
- Gained expertise in mobile app development and geolocation services.
- Successfully completed project work at the Department of Computer Science and Engineering.

Web Team Associate

IEEE CUSAT

April 2024 – Dec. 2024

CUSAT, Kerala

- Spearheaded development of [BotJungle](#) website, a key project for IEEE CUSAT SB
- Contributed to team leadership and project coordination
- Participated in various events and community initiatives

Frontend Developer

Notime

March 2024 – March 2025

Kalamassery, Kerala

- Led web development projects from conception to deployment
- Gained valuable leadership and mentoring experience
- Contributed to the development of a restaurant [Stop Off Burger](#) website.
- Contributed to improving development processes and best practices

Intern

Infenox Technologies

June 2023 – July 2023

Infopark, Kerala

- Provided comprehensive feedback on the functionality and usability of software under development.
- Identified and reported bugs and suggested improvements for user experience.
- Contributed to the quality assurance process of the software.

EDUCATION

Cochin University of Science and Technology

Five Year Integrated M.Sc in Computer Science (Artificial Intelligence and Data Science)

Kalamassery, Kerala

Nov. 2021 – May 2026

Kendriya Vidyalaya

Higher Secondary Education

Kadavanthra, Kerala

June 2019 – May 2021

PROJECTS

Git Time Machine | Node, HTML, CSS, Js, Git

Feb 2025

- Built at FOSS Hack 2025 to help developers visualize Git history and track changes more intuitively
- Features include interactive branch navigation, commit timeline visualization, and an advanced diff viewer.
- Supports full Git repository integration, remote synchronization, and branch management.
- Integrated real-time commit comparisons and branch timelines using JavaScript and Git CLI
- Designed as a personal tool; optimized for single-user dev projects

Ambulance Detector | Arduino, Seed Studio grove vision 2, xiao-esp32s3 sense

Dec. 2024

- Designed a prototype for automated ambulance detection using sound & vision input where, upon detection of an approaching ambulance through combined camera and sound inputs, the system triggers a change in traffic signals from red to green, ensuring a clear path for emergency vehicles.
- Integrated Grove Vision and Xiao ESP32 S3 boards to test traffic signal switching logic.
- Utilized the Seed Studio Xiao-ESP32S3 Sense for audio detection to capture ambulance sirens, pairing it with visual sensors to accurately identify ambulances.

Task Trails | *Orkes, Auth0, React, MongoDB, Node,PWA* Oct. 2024

- A Progressive Web Application (PWA), prototyped within 48 hours for location-based task management with offline functionality
- Built for hackathon use-case, enabling geolocation-triggered reminders in busy environments
- Implemented Auth0 for user login experience
- Used MongoDB for task persistence and implemented offline sync support for reliability

Garbage Management System | *Scikit Learn,python,HTML,CSS,Js, Git* May 2023

- Developed for a hackathon, this system aimed at optimizing waste management using machine learning algorithms in Scikit-learn and a user-friendly interface built with React.

ACADEMIC PROJECTS

Text to SQL | *Python, scikit-learn,torch,pandas, numpy, datasets* April 2024

- Developed and fine-tuned a T5 Small model to automatically generate executable SQL queries from natural language descriptions, streamlining database interactions.
- Leveraged a text-to-text framework to reframe diverse NLP tasks, enabling consistent input/output handling and improving overall model versatility.
- Simplified complex SQL query generation, making database querying accessible to non-technical users while optimizing model performance and maintainability.

Public Health Data Analysis Research | *Using R on National Seminar Publication* March 2024

- Conducted comprehensive analysis of NFHS-5 dataset examining correlations between women's literacy, socio-economic factors, and maternal-child health outcomes in India
- Published and presented findings at the Two-Day National Seminar on "PUBLIC HEALTH SYSTEM AT THE GRASSROOT LEVEL IN INDIA: REGULATORY AND POLICY LEVEL APPROACH"
- Utilized statistical analysis and data visualization tools to identify critical patterns
- Findings influenced policy recommendations for improving healthcare systems

Exploratory Data Analysis | *Python, scikit-learn, matplotlib, pandas, numpy* Feb. 2024

- Performed EDA on depression dataset based on economical and socio-living conditions.
- Reflected on various factors responsible for depression and was able to use it for good prediction models.

VOLUNTEERING AND MENTORING

TinkHerHack 3.0 Feb. 2025

Mentor Kerala, India

- Mentored 15+ participants at Tinkerhack 3.0; 90% of teams successfully deployed MVPs by event end.
- Supported data structure workshops with hands-on coding exercises and one-on-one mentorship.

IEEE Edsoc R10 section Feb. 2025 – Present

GSM Coordinator Kerala, India

- Develop and implement strategies to recruit graduate students into IEEE.
- Promote IEEE membership benefits, such as access to technical resources, networking opportunities, and career development tools.
- Act as a mediator between graduate students and IEEE leadership, conveying their concerns and suggestions.

Space Carnival Dec. 2024

Volunteer Tinkerspace, Kochi

- Volunteered at Tinker Space Carnival by TinkerHub, celebrating their second anniversary and helping create an unforgettable experience for all attendees.

GDG Cochin Oct. 2024

Volunteer XIME, Kerala

- Volunteered at DevFest 2024 Kochi, efficiently managing registration and assisting both participants and speakers during the event.
- Enhanced my communication and multitasking skills by coordinating logistics and ensuring smooth operations throughout the event.
- Attended engaging sessions and a hands-on cloud workshop that broadened my technical perspectives and deepened my event management skills.

- Expanded my professional network by collaborating with industry experts and passionate tech enthusiasts, fueling my continuous growth in the tech community.

Web3 Kerala

August 2024 – Present

Developer

India

- Contributed with a team of 10-12 developers to build w3kconfig.com, Kerala's largest web3 conference website attracting 5,000+ attendees.

Problem Solving Workshop

July 2024

Mentor

Kalamassery, Kochi

- Mentored a problem-solving workshop focused on basic data structures and algorithms, guiding students through hands-on sessions on loops, arrays, and essential debugging techniques.
- Fostered a collaborative learning environment where students could explore real-world coding challenges, celebrate breakthrough moments, and support one another in real time.

TECHNICAL SKILLS

Languages: *Comfortable* :- Python, JavaScript, Java, HTML/CSS, R;

Familiar :- C++, SQL(Postgres, MySQL)

Tools & Frameworks: React, Node.js, Flask, Next.js, Three.js

Design: Figma

ML & Data: pandas, NumPy, Matplotlib, TensorFlow, scikit-learn

Others: Git, GCP, Firebase, Figma, Arduino

Areas of Interest: AI/ML, Cryptography, Blockchain, Web Development