

Nithya Mariam Rajan

Aspiring Software Engineer

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Computer Science student with 6 months of internship experience in software development, combining academic learning with real-world project exposure. Skilled in web development and familiar with mobile app development and AI-based solutions. Passionate about building clean, user-friendly applications and eager to keep learning and contributing innovative ideas to impactful projects.

EDUCATION

B.Tech in Computer Science and Engineering | **Amal Jyothi College of Engineering (Autonomous, Tier 2)** | Oct 2022 – May 2026

Higher Secondary , Computer Science Stream | **Central Board of Secondary Education (CBSE)** | June 2020 –July 2022

WORK EXPERIENCE

App Development Intern | June 2025

Teklearn, Kochi

- Developed a complete mobile application from scratch using Flutter and Dart in Android Studio..
- Designed a clean and user-friendly interface while following modern UI/UX principles.
- Understood the complete app development process from planning and coding to testing and debugging.

Software Development Intern | Dec 2024 - May 2025 (6 months)

GrowGeni

- Contributed to client projects, supporting web development and deployment activities.
- Designed and developed responsive front-end interfaces using Frontend
- Used browser developer tools to debug issues and optimize performance.
- Worked closely with branding and content teams to implement client requirements and deliver timely digital solutions.
- Assisted with client communications and maintained web performance standards for multiple websites.

Tink-Her-Hack - Hackathon | February 2025

IEEE Amal Jyothi College Of Engineering.,Kanjirapally

- Collaborated in a team of three to build a web-based itinerary generator for Kerala tourism.
- Developed an interactive front-end using HTML, CSS, and JavaScript.
- Enhanced skills in UI design, problem-solving, and rapid web development.

Flutter Development Intern | May 2023

Reverttech It Solutions

- Developed a Weather App using Flutter & Dart that displays real-time weather updates by integrating an open API.
- Focused on clean UI/UX design for easy navigation and practiced state management for handling live data efficiently.
- Through this project, I studied the basics of Flutter app development, including layouts, API calls, and responsive design.

TECHNICAL WORKSHOPS

AI & LLM (Large Language Models) Workshop | June 2025

IIT Hyderabad (Organized by Teklearn, Kochi) | [Link](#)

- Explored fundamentals of Artificial Intelligence (AI) and Large Language Models (LLMs).
- Gained insights into real-world applications of AI and generative models.
- Strengthened understanding of model training, deployment, and AI-driven innovation.

Innovation Workshop | April 2023

IDEC Amal Jyothi College Of Engineering.,Kanjirapally | [Link](#)

- Explored problem-solving techniques through innovative approaches.
- Developed creative solutions for real-world challenges.
- Collaborated in small teams to brainstorm and prototype ideas within a limited time.

Full Stack Web Development Workshop | March 2023

NIT, CALICUT | [Link](#)

- Gained hands-on experience in front-end and back-end development.
- Built web applications using HTML, CSS, JavaScript, and server-side frameworks.
- Strengthened skills in modern web technologies and deployment strategies.

Robotics Workshop | March 2023

RIT , Pampady | [Link](#)

- Designed, built, and programmed basic robotic systems.
- Gained foundational knowledge in automation and AI-driven robotics
- Explored practical applications of robotics in everyday problem-solving.

SOFTWARE PROJECTS

CavAI – Automated Cavity Detection and Stage Grading (Ongoing)

- Developing an AI-based system using CNNs (ResNet-50) to detect and classify cavities from dental X-rays.
- Applied image preprocessing and Grad-CAM explainability for accuracy and interpretability.
- Designed to deliver consistent, stage-specific diagnosis and reduce reliance on manual dental expertise.

Travel Website - SpotOn | [Link](#)

- Developed SpotOn, a travel website using React and MongoDB for generating personalized itineraries based on user preferences and mood.
- Designed an intuitive and interactive UI for effortless trip planning and destination discovery.
- Tested the website across multiple devices to ensure smooth performance and consistent layout.
- Worked on improving navigation flow to make trip planning quicker for users.

Personal Portfolio Website | [Link](#)

- Designed and deployed a personal website showcasing skills and projects using HTML, CSS, and JavaScript.
- Optimized for responsiveness and user engagement.
- Kept the design simple and minimal to highlight content clearly.

Google Drive Clone | [Link](#)

- Developed a functional file storage and management system using HTML and Material CSS.
- Implemented file upload, organization, and display features.
- Ensured files were displayed in a clear, easy-to-browse layout.

Travel itinerary Generator - EXPLOREO | [Link](#)

- Developed *Exploreo*, a Kerala-based Travel Itinerary Generator using HTML, CSS, and JavaScript to create custom travel plans based on user inputs.
- Implemented features like dynamic itinerary generation and weather-based activity suggestions for an enhanced planning experience.
- Made the layout mobile-friendly so users could plan trips on the go.

Ludo Game | [Link](#)

- Programmed a digital Ludo game using python implementing core game logic, random dice rolls, and player movements.
- Strengthened algorithmic thinking and problem-solving skills.
- Tested the game logic to ensure fair random outcomes and smooth gameplay.

Facebook Clone

- Built a simplified version of Facebook's UI using HTML and CSS.
- Focused on layout structuring and user interaction.
- Kept the design close to the original for familiarity.

Hotel Management System

- Designed a SQL-based system for managing room bookings, customer details, and payments.
- Improved database management and real-world data handling skills.
- Created a basic menu system for quick access to booking, billing, and customer details.

TECHNICAL SKILLS

- **Languages :** Python, Java, C++, JavaScript
- **Web/App Development:** HTML5, CSS3, React, Flutter, Bootstrap, Tailwind, Firebase, MYSQL, SQL & NoSQL, MongoDB
- **Tools & Platforms:** Git, GitHub, VS Code, Netlify, Vercel , WordPress , Figma, Adobe XD, Unix, Linux, Latex
- **Core Concepts:** DSA, Object-Oriented Programming (OOP), UI/UX Design, Rest APIs, Problem Solving

CERTIFICATES

- App Development | Teklearn | Jun 2025
- AI & Large Language Models (LLM) Workshop | Teklearn | Jun 2025
- Machine Learning with Python | FreeCodeCamp | Aug 2024
- Database Programming | Oracle | Jul 2024
- Full Stack Development | Udemy | Mar 2024
- Python Course Completion | Kaggle | May 2023
- Flutter Development | Reverttech Solutions | May 2023

EXTRA-CURRICULAR ACTIVITIES

- **IEEE Member** – Collaborated with peers on innovative tech projects and attended knowledge-sharing sessions.
- **College Volunteer** – Assisted in managing event schedules, registrations, and technical setups during fests.
- **Community Volunteer (MGOCSM)** – Engaged in social work, including food distribution and community services.

AREAS OF INTEREST

- Web Development | UI/UX Design | App Development | Problem Solving | Responsive Web Design | Web Hosting