

Vaitheeshwar Badrinarayanan

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🌐 Vaitheeshwar Badrinarayanan

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Profile

I am a dedicated Computer Science graduate with a Bachelor of Engineering degree, driven by a passion for innovation and technology. My academic background has equipped me with strong fundamentals in programming, data structures, and system architecture. I further honed my skills through an internship in the domain, where I contributed to real-world projects and gained hands-on experience in this domain. I am pursuing my Master's degree in Software Engineering at University of Limerick to deepen my expertise, engage with global perspectives, and contribute to cutting-edge advancements in the field. I thrive in collaborative environments and am eager to grow both personally and professionally through this journey.

Education

09/2025 – 09/2026
Limerick, Ireland

Masters of Science in Software Engineering
University of Limerick

08/2021 – 05/2025
Chennai, India

Bachelor of Engineering in Computer Science
Sathyabama Institute of Science and Technology
CGPA: 8.02 / 1.1 honours)

07/2020 – 05/2021
India

Senior Secondary Education
Chellammal Vidyalaya CBSE

06/2018 – 05/2019
India

Secondary School Education
Sri Vageesha Vidyashram CBSE

Projects

12/2024 – 04/2025

Enhancing Music Discovery: A Real-Time Recommendation System using Sentiment Analysis and Emotional Matching with Spotify Integration

We developed a real-time music recommendation system that suggests songs based on users' emotions, detected through sentiment analysis and emotion recognition. The system used NLP models to analyze text and audio inputs and was integrated with the Spotify API for personalized recommendations. It achieved high accuracy in detecting emotions and delivered quick results, while also addressing challenges with complex emotions like fear and surprise.

01/2025 – 03/2025

Idea Store – A Full-Stack Idea Management Platform

During my internship at Sundaram Infotech Solutions, I developed a full-stack idea management system using the PERN stack (PostgreSQL, Express.js, React.js, Node.js). The platform included user authentication, idea submission and management, and team collaboration features. I implemented secure login, optimized backend APIs, built a responsive frontend, and deployed the application to the cloud with iterative improvements based on feedback.

Internship Experience

01/2025 – 03/2025
Chennai, India

Full-Stack Development Intern
Sundaram Infotech Solutions Limited

Completed a 3-month full-stack development internship at Sundaram Infotech Solutions Limited, where I gained hands-on experience in building scalable web applications from the ground up. I began by strengthening my foundation in HTML, CSS, and JavaScript, creating a responsive portfolio website to apply core concepts such as layout design, DOM manipulation, and event handling. Progressing to frontend development with React.js, I built reusable components, implemented client-side routing using React Router, and managed API integrations with Fetch and Axios. I then advanced to backend development using Node.js and Express.js, designing PostgreSQL schemas and implementing secure authentication systems with JWT and bcrypt. A major highlight of my internship was developing the "Idea Store" platform, a collaborative web application featuring RESTful APIs for idea submission, updates, deletion, and team interaction. I was responsible for full frontend-backend integration, UI responsiveness across devices, real-time updates, and performance optimization. Toward the final phase, I deployed the application to a cloud environment and refined both backend efficiency and user experience based on stakeholder feedback, gaining valuable end-to-end development experience in a real-world project setting.

Certificates

Web Development Training – Internshala Trainings

Successfully completed a comprehensive online training program in Web Development offered by Internshala Trainings. The course covered key web technologies and tools including HTML, CSS, Bootstrap, JavaScript, PHP, DBMS, and React. Concluded with a capstone project that integrated all learned skills. Demonstrated strong performance with an overall score of 83% in the final assessment.

Value Added Course - Web Development - Sathyabama Institute of Science and Technology

Successfully completed a 40-hour intensive training in Web Development, covering both theoretical and practical components. Achieved a score of **91%** in the combined theory examination and project assessment. The course emphasized key technologies including HTML, CSS, JavaScript, PHP, and database management systems, with hands-on -experience.project.

Conference Presentation – IEEE ICoACT 2025

*Paper Title: “Enhancing Music Discovery: A Real-Time Recommendation System Using Sentiment Analysis and Emotional Matching with Spotify Integration”*Presented a research paper at the **IEEE International Conference on Advances in Computing Technologies (ICoACT 2025)** (Conference ID: #63339), representing Sathyabama Institute of Science and Technology. The paper focused on building a real-time emotion-aware music recommendation system using sentiment analysis and Spotify API integration to enhance personalized user experiences.

Skills

Java	Javascript
C++	C
HTML	CSS
React JS	Express JS
SQL postgresQL	OOPS
Declaration	OS, Network Security , Debugging

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

Vaitheeshwar Badrinarayanan