

Venkat Pabbathi

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PROFILE

MSc student in Mathematics and Computer Science with experience developing full-stack web applications and interactive systems. Skilled in React, Next.js, Node.js, and MongoDB, with hands-on experience in API design, authentication, and cloud deployment. Background in Human-Computer Interaction with experience in usability evaluation and structured interaction design. Interested in building reliable digital systems and empirically evaluating user behavior.

PROFESSIONAL EXPERIENCE

08/2022 – 03/2023

Bengaluru, India

Amagi Media Labs

Full Stack Developer

- Built and maintained scalable full-stack features using **React.js, Node.js, MongoDB, and MySQL**.
- Developed responsive dashboards and UI components aligned with internal and client-facing workflows.
- Designed and integrated **REST APIs** to support media asset management and content delivery.
- Utilized **AWS (S3, EC2)** for deployment, monitoring, and cloud-based file handling.
- Collaborated in cross-functional agile teams to deliver reliable, production-ready features.

12/2021 – 05/2022

Pune, India

Scalefull Technologies

Full Stack Development Intern

- Contributed to full-stack web applications using **React, Node.js, Python, MongoDB, and MySQL**.
- Assisted in developing frontend components and backend services under senior engineering mentorship.
- Participated in feature implementation, debugging, and performance optimization.
- Collaborated within a team environment to deliver scalable and user-focused digital solutions.

SKILLS

Technical Skills

Python (data analysis, scripting),
JavaScript (React, Node.js),
HTML/CSS, MySQL/MongoDB,
Bash

Tools and Platforms

Git, GitHub, Linux CLI, AWS (S3, EC2), Figma

Professional Skills

Analytical problem-solving,
Structured system design,
Usability evaluation, Technical documentation

PROJECTS

04/2022 – 06/2022

Anilog – Full Stack Anime Tracker

- Architected and developed a full-stack web application using **React, Next.js, Node.js, and MongoDB**.
- Implemented **authentication**, personalized lists, dynamic filtering, and state-based content organization.
- Designed reusable, responsive UI components and built **REST APIs** for structured content management.
- Deployed to **Vercel/Render** with environment-based configuration and secure session handling.

(<https://anilog-tracker.vercel.app/>)

04/2025 – 06/2025

Dual-Gyro Arduino Coach

- Designed and implemented a **real-time motion monitoring system** using **Arduino** and gyroscope sensors.
- Processed live sensor data with time-based **threshold detection** to identify posture deviations and rhythmic movement patterns.
- Integrated structured **serial data logging** and immediate audio-visual feedback mechanisms.

10/2024 – 01/2025

IKnow Study app

- Designed and prototyped a productivity-focused study application using **Figma**.
- Applied **UX research methods** including personas, task analysis, and **usability testing**.
- Translated user insights into structured **interaction flows** with emphasis on accessibility and cognitive load reduction.

09/2020 – 12/2020

Recipe Cards – Personal Front-End Project

React, JavaScript (ES6), HTML5, CSS3, Git, GitHub

- Developed a responsive recipe web application using **React** and modern CSS (**Flexbox/Grid**).
- Structured semantic HTML with accessibility considerations and clean component architecture.
- Implemented reusable UI components and dynamic content rendering.
- Focused on layout clarity, usability, and **mobile-first design principles**.
- Deployed via **Vercel** for production hosting.

(<https://recipe-cards-eight.vercel.app/>)

EDUCATION

04/2023 – Present
Saarbrücken,
Germany

Master of Science- Mathematics and Computer Science

Universität des Saarlandes [🔗](#)

Focus on **Full-Stack Development, Human-Computer Interaction, and Interactive Systems**

08/2019 – 07/2022
Bengaluru, India

Bachelors of Science- Mathematics, Computer Science, Electronics

St. Joseph College (Autonomous) [🔗](#)

- Core foundation in **Data Structures, Algorithms, Database Systems, and Object-Oriented Programming**
- Bachelor Project: Developed a web-based clinic management system using **PHP** and **MySQL**

LANGUAGES

German

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