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📍 Chennai, India

Profile

Full-Stack Web Developer skilled in the **MERN** stack (MongoDB, Express.js, React, Node.js) with a focus on building user-centric applications.

Certified in Full-Stack Development from **Guvi IIT**.

Programming expertise in Python and C gained from a **10-month embedded systems internship**.

Completed additional courses in UI/UX design on **Udemy**, enhancing skills in creating seamless user experiences.

Proficient with **version control** using **Git** and experienced in **CI/CD** practices.

Eager to contribute a well-rounded technical and design background in a junior full-stack role. collaborating on innovative projects and delivering high-quality web solutions.

Skills

Programming Languages
- JavaScript
- Python
- C

Frontend
- React.js
- HTML5
- CSS3
- JavaScript (ES6+)
- Bootstrap
- Tailwind CSS
- Vite Build Tool

VISHNUPRIYA THAMILARASAN
Full Stack Developer

Intern Experience

Embedded Engineer, AERQ - Germany
Mar 2022 - Dec 2022

- **Embedded Systems Development:** Developed software components for **Inflight Entertainment (IFE)**, including stress-testing SD cards and SSDs with **stress-ng** in **Yocto** images.
- **REST API Testing:** Validated API functionality and security using **Robot Framework** with **Python**, integrating tests into **GitLab CI/CD** pipelines.
- **Yocto & Monitoring:** Built custom **Yocto** images in **Docker**, integrating **Node Exporter** and **Grafana** for monitoring.
- **Pre-Installation Testing (LRU):** Created **Qualification Test Programs (QTP)** for **Line-Replaceable Units (LRUs)** to meet aviation standards.
- **Team Collaboration:** Worked in agile teams, managing code with **Git**.
- Technical Skills: **Python, REST API Testing (Robot Framework), Yocto Project, Docker, CI/CD (GitLab), Git, Bash, C Programming.**

How I Can Contribute as a Full-Stack Developer:

- **Reliability & Performance:** Embedded systems experience in **high-precision, reliable software**—ideal for building robust web applications.
- **Backend & CI/CD:** Skilled in **REST API testing** (Robot Framework, Python) and **CI/CD automation.**
- **Technical Adaptability:** Proficient with **Docker, Yocto, Git** for complex development environments.

In Full-Stack, I Bring:
- **Secure APIs** and scalable backend services.
- **User-centric interfaces** with React.
- **Efficient CI/CD** for reliable deployments.

My experience in embedded systems contributes a **structured approach**, **fresh perspective**, and **cross-disciplinary skills** to web development.

Backend
- **Node.js**
- **Express.js**
- **RESTful APIs**

Databases
- MongoDB
- MySQL
- Mongoose

Deployment
- Netlify
- Render

Testing & Debugging
- Postman
- Chrome DevTools
- Robot Framework

Mobile Development
- React Native

UI/UX Design
- Adobe XD
- Sketch
- Figma
- Responsive Design
- UI/UX Principles

Tools & Technologies
- Git
- Docker
- CI/CD
- RESTful APIs
- Visual Studio Code

Version Control & Collaboration
- Git
- GitHub
- GitLab
- Bitbucket
- Slack
- JIRA

Language

- **Tamil**
- **English**
- **German - A1 (Beginner)**

Project

Capstone Project, Guvi IIT

Library Management System (LMS)
Developed a comprehensive Library Management System using the **MERN** stack to streamline book inventory management and enhance user experience.

- **Key Features:**
  - **Book Management:** Added, updated, and deleted book records; implemented reservation and notification systems for availability.
  - **Borrowing & Returns:** Enabled book borrowing and returns, tracking transactions and due dates; set up overdue notifications via email/SMS.
  - **User Accounts:** Created user registration and authentication; defined roles and permissions for different user levels.
  - **Reviews & Feedback:** Implemented user review submission and rating system; provided admin tools for review moderation.
  - **Notifications & Alerts:** Developed a system to notify users about book availability, reservations, and overdue reminders.
  - **Reports & Analytics:** Generated insights on inventory and user activity for data-driven decisions.
- **Technologies:** Utilized the **MERN stack**, **TailwindCSS**, **RESTful API** (using Express), **Axios** (for HTTP requests), **JWT** (for authentication) and **Razorpay** (for payment); deployed on **Netlify** (for frontend hosting) and **Render** (for backend hosting), with code hosted on **GitHub**.

Education

M.Tech in Embedded System Technology,
SRM Institute of Science and Technology, Chennai.
2018-2020

B.E in Electronic and communication Engineering,
Kamaraj College of Engineering and Technology, Virudhunagar.
2013-2017

Certifications

- Zen Class Full Stack Developer Program – **Guvi IIT**
Certificates: **Bootstrap, CSS3, HTML5, JavaScript, Node.js, React.js, MongoDB, MYSQL, Full Stack Developer.**

Certificates from Udemy:
- User Experience Design Essentials - **Adobe XD UI UX Design.**
- The Complete **Sketch** 5 Course - Design Apps & Websites.
- **Python** Mega Course.