# Rithickroshan S

## Jr. Software Engineer

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## SUMMARY

**Software Engineering student (Class of 2026)** with a passion for full-stack development and a proven ability to deliver end-to-end solutions. Highly skilled in the MERN stack and Python, with hands-on experience building scalable applications like a no-code portfolio builder. My experience extends to leadership, having **taught REST APIs and full-stack principles to over 200 students** as a technical workshop lead. Eager to bring both technical and collaborative skills to a dynamic engineering team.

## EDUCATION

**Mahendra Engineering College**, Namakkal.
Bachelor of Engineering (BE) in Cyber Security 2022 – 2026 (Expected)

## TECHNICAL SKILLS

- **Languages:** JavaScript(ES6+, OOJS), *Python**, Java*
- **Frontend:** React.js*, HTML5*, CSS3*, Tailwind CSS, React Hooks, Context API
- **Backend:** Node.js*, Express.js*, Python*, Flask, socket.io, REST APIs
- **Databases:** MongoDB*, MySQL*
- **Concepts:** Component-Based Architecture, JWT Authentication, RBAC, Responsive Design
- **Tools & Deployment:** Git, GitHub, Vercel
  *Indicates skills for which I have earned certifications.

## PROJECTS

**Bi-Folio - No-Code Portfolio Builder (SaaS) [In Development]** | [Live Link](#) | [GitHub Repo](#)
- Developing a full-stack application using the MERN stack (MongoDB, Express.js, React, Node.js) to empower users to create and deploy their own professional portfolios without code.
- Engineered a responsive frontend with React.js, utilizing a component-based architecture and React Hooks for efficient state management during portfolio customization.
- Implementing a secure RESTful API with Node.js and Express.js for user authentication and to manage portfolio data.

**RESTful Blog Management API** | [Live Link](#) | [GitHub Repo](#)
- Developed and consumed a secure RESTful API to manage blog content, demonstrating the ability to integrate frontend applications with backend services.
- Implemented JWT-based authentication on the client-side to handle user sessions and secure protected routes in a React application.

**Tax Loss Harvesting Visualizer** | [Live Link](#) | [GitHub Repo](#)
- Developed a comprehensive financial tool with React 18 and Vite to help users visualize tax optimization strategies for their crypto holdings.
- Engineered a real-time capital gains/losses calculator and implemented interactive holdings management with sorting and filtering functionalities., Utilized Context API for robust state management and integrated a third-party API to fetch live cryptocurrency data.
- Designed a clean, responsive UI with Tailwind CSS, featuring data visualizations and a dark theme to ensure a smooth user experience.

## EXPERIENCE

**Technical Workshop Lead (Volunteer)** | *Web Canva Workshop* | [*Know more*](#)
- *Led a hands-on web development workshop for 200+ students, teaching full-stack principles using the MERN stack.*
- *Delivered interactive sessions covering core web concepts, REST APIs, authentication, version control with Git/GitHub, and deployment best practices.*

## WORKSHOP

**AWS Mega Workshop** | *NxtWave*
- Completed an intensive, hands-on workshop covering cloud computing fundamentals and practical applications of key AWS services., Gained proficiency in deploying and managing applications using **EC2**, **S3**, **CloudFront**, **Route 53**, and **Lambda**.

## ACHIEVEMENTS

**3rd Prize, CATCH '25 Coding Contest** | *Mahendra Engineering College* | [*Know more*](#)
- Secured third place in a competitive, multi-round placement preparation contest that included MCQs, code debugging, and problem-solving. Demonstrated proficiency in Python by optimizing code and solving.