# Shrivathsa M S

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## Experience

**Solvendo - Legal-tech startup** — Bengaluru, KA
*Software Engineer (Front End)* — July 2023 - February 2025

- Worked on an application that streamlined the Indian bankruptcy process for banks, companies, and lawyers, used by institutions such as Canara Bank
- Worked on micro-frontend architecture, user authentication, and configuration management. Technologies used: React, Webpack, Javascript, JWT
- Bootstrapped a new Next.js frontend project for a bankruptcy process with standard coding practices and created standardized, reusable components, reducing dev time by 30%. Technologies used: Next.js, Chakra UI, NextAuth.js
- Worked on a high-performance dashboard application for a blockchain analytics platform. Built rich interactive charts for visualizing time series data and a drag-and-drop interface for blockchain data analysis. The website had 10k MAU at its peak, loaded in under 2 seconds, and a Lighthouse score of 93. Technologies used: Next.js, React-DND, ApexCharts
- Used React DevTools and Lighthouse to diagnose performance issues in React, optimized web page performance, and decreased loading times, reducing FCP by 50%.
- Built a blockchain data processing microservice in Golang to aggregate data from WebSockets and provide REST API endpoints, achieved 8x higher throughput than the previous solution. Technologies used: net/http, REST APIs, WebSockets

**Indian Institute of Science** — Bengaluru, KA
*Research Intern* — January 2023 - July 2023

- Engineered multi-agent robot systems for agricultural applications, achieving 2x improvement in obstacle avoidance performance through novel algorithms. Technologies used: Python, ROS, EGO Planner
- Developed motion planning algorithms and perception software for UAVs in Python. Technologies used: ROS, Intel Realsense cameras, 2D Lidars
- Integrated UAVs with DJI control software using SDKs to enhance automation capabilities. Technologies used: Python, DJI SDK

**NewSpace Research & Technologies - UAV & robotics R&D company** — Bengaluru, KA
*Robotics Engineer* — October 2021 - January 2023

- Worked on ROS-based autonomy software for UAVs operating in GPS-denied environments. Technologies used: ROS, Python, Linux, C++
- Optimized robot localization using visual SLAM and LiDAR SLAM algorithms in C++. Technologies used: OpenCV, OpenSLAM, VINS-Stereo/Mono, Ouster Lidars
- Developed UAV simulation tools using python and physics simulation software. Technologies used: Python, Gazebo, Docker, C++

## Key Technical Skills

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|---|---|
| Programming Languages: | HTML, CSS, JavaScript, TypeScript, Go |
| Frontend Development: | Next.js, React.js, Redux |
| CSS and UI Libraries: | Material Design, Tailwind CSS, Chakra UI, SASS |
| Backend Development: | Node.js, Express.js, REST APIs, Microservices, net/http, Docker |
| Testing: | Jest, Cypress |
| Databases: | MongoDB |
| SDLC: | Agile, Git, Jira, Gerrit |

## Education

**BMS College of Engineering** — Bengaluru, KA
Degree in Mechanical Engineering (BE) — July 2017 - July 2021
Electives: AI, Java, Robotics *GPA: 8.75*

## Projects

**Aami & The Mangrove** *PIXI.js, TypeScript, npm*
A visual novel built for the web using the PIXI.js library and TypeScript, developed as part of a graduate thesis. Live Demo: https://aamismangrove.in/

**WikiTree Browser Extension** *TypeScript, React.js, Chrome Browser Extensions*
A Chrome extension to visualize Wikipedia rabbit holes as interactive trees, built using TypeScript and React. Link: https://chromewebstore.google.com/detail/wikitree/gmepfbiaaamedihnliggicgbphigbcje?hl=en