

SHRIVATHSA M S

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EXPERIENCE

Solvendo

Software Engineer - Frontend

Bengaluru, KA
July 2023 - February 2025

- Worked on an online platform for banks to streamline bankruptcy proceedings, optimizing workflows
- Setup a Next.js Frontend from scratch with Industry standard coding practices and created standardized reusable components
- Worked on rich interactive charts and drag-n-drop interfaces for a browser based Blockchain data processing application
- Implemented OAuth & JWT based Authentication using NextAuth.js
- Used Lighthouse to optimize performance and decrease loading times, reducing FCP by 50%
- Wrote Blockchain data APIs in Golang, significantly reducing data processing speed bottlenecks

Indian Institute of Science

Research Intern

Bengaluru, KA
Jan 2023 - July 2023

- Engineered multi-agent robotics systems for agricultural applications, achieving better obstacle avoidance through newer algorithms
- Developed motion planning algorithms and perception software for UAVs in Python.
- Integrated UAVs with DJI control software using SDKs to enhance automation capabilities.

NewSpace Research & Technologies

Robotics Engineer

Bengaluru, KA
Oct 2021 - Jan 2023

- Designed ROS-based autonomy software for UAVs operating in GPS-denied environments.
- Optimized robot localization using Visual SLAM and LiDAR SLAM algorithms in C++.
- Developed UAV simulation tools and software on the Qualcomm RB5 platform using Python and SDKs.

Invento Robotics

Software Development Intern

Bengaluru, KA
July 2020 - Sept 2020

- Implemented SLAM-based navigation for Autonomous Ground Vehicles (AGVs).
- Developed monitoring and management software for AGVs using ROS and Python.
- Programmed motor control software for AGVs using Arduino and C.

TECHNICAL SKILLS

Programming Languages: JavaScript/TypeScript, Python, Go, C/C++, HTML, CSS
Frontend Development: React, Next.js, Redux, Material UI, Tailwind, CSS3, Webpack, Cypress
Backend Development: Node.js, Express.js, FastAPI, REST APIs
SDLC: Agile, Git, Docker, Jenkins

EDUCATION

BMS College of Engineering

Degree in Mechanical Engineering (BE), Electives: Artificial Intelligence, Java, Robotics, *GPA: 8.75* July 2017 - July 2021

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.

WikiTree Browser Extension *TypeScript, React, Browser Extensions*

A Chrome extension to visualize Wikipedia rabbit holes as interactive trees, built using TypeScript and React.