

Saivinay Manda

SOFTWARE ENGINEER

OBJECTIVE

Solution-oriented software developer with 2 years of experience in building and optimizing user-focused web applications. Skilled in communication, collaboration, and delivering high-quality, responsive software solutions. Looking for entry level positions in web Development / software Development.

EXPERIENCE

SOFTWARE DEVELOPER / INTERN – IIT GENOA, AI LAB UNIGE

18 March 2024 – 14 October 2024

- **Project:** Tested ROSMonitoring, a runtime monitoring framework for ROS systems, integrating RML and a Prolog-based oracle.
- **Technologies Utilized:** Employed Python, ROS, ROS 2, Ubuntu, and Docker. Utilized NVIDIA Container Toolkit for creating optimized, GPU-accelerated Docker containers.
- **Development and Implementation:** Implemented and validated the monitoring framework on the IIT R1 robot as part of the RobMoSys initiative, an EU project focused on enhancing robotics software development.
- **Safety Strategies:** Developed and integrated advanced safety strategies, including improvements in human-robot interaction.
- **Thesis:** "Context-aware Verifiable and Adaptive Dynamic Deliberation"

SOFTWARE ENGINEER / INTERN – MANYDESIGNS SRL

15 May 2023 - 13 November 2023

- Key contributor to the successful implementation of two business application projects.
- Enhanced user experience and data visualization using various frontend tools and frameworks.
- Supported backend development with robust and efficient technologies and frameworks.
- Optimized data management and visualization for improved project workflows.
- Demonstrated adaptability and proactive involvement in diverse Full Stack Development projects.

ROBOTICS SOFTWARE ENGINEER/ INTERN - GREEN PROJECT - GP MARKING & READING SYSTEMS

06 February 2023 – 06 May 2023

CONTACT

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Via Filippo Corridoni, 3/1, Genova
GE

AREAS OF EXPERTISE

Front-end & back-end web
development

Code structure & architecture

Programming languages

Agile software development

Source control

Test driven development

EDUCATION

University of Genoa
Msc Computer Science (Robotics
Engineering)

The National Institute of
Engineering
BTech Mechanical Engineering (Basic
Programming)

- Software Development with Kukasimpro, kuka Workvisual, Kuka SystemSoftware, Kuka Control pad and Kuka Robot Language (KRL).
- Mechanical 2D layout and 3D layout analysis
- Electrical knowledge of our whole system operation and testing of Robots before deployment
- Essential travel for cold commisioning.Interacting with clients and project meetings.

JUNIOR WEB DEVELOPER - ACETEQ WEB SERVICES PVT LTD

06 August 2018 - 23 December 2019

- Built and maintained websites for clients through various online platforms
- Created and tested applications for websites
- Filed reports, gathered information, and performed research
- Created guides to document the processes and maintain business continuity

ROBOTICS TECHNICIAN – AVYANG TECHNOLOGIES PVT LTD

January 2017 – June 2018

- **CAD Design and Prototyping:** Created intricate CAD designs using SOLIDWORKS and CATIA, and materialized them through 3D printing.
- **Microcontroller Programming:** Programmed microcontrollers including ARDUINO, RASPBERRY PI, and BEAGLE BONE BLACK, integrating them with sensors and motors for seamless functionality.
- **Smart Device Development:** Led the development of an innovative smart device that merges digital media education, from ideation to successful prototyping.
- **Workshops and Mentoring:** Conducted engaging workshops, mentoring over 240 students across four batches, fostering a passion for robotics through hands-on projects.

Technical Skills

Programming Languages	HTML5, CSS3, JavaScript, Typescript, ES6, python, C++/C
Frontend	Reactjs, Vuejs
Backend	Node.js, Next.js, Springboot basics, Django
Database	MongoDB, PostgreSQL on AWS RDS
Infrastructure	AWS (EC2), Docker
Source control	Git
communication	slack
IDE	Visual studio code, IntelliJ
OS	MacOS, Ubuntu, Windows
others	Postman API, Rest API, Apache Echarts, pinia store

Soft skills

- **Problem Solving:** Adept at identifying issues and developing creative solutions.
- **Innovative Thinking:** Skilled at thinking outside the box to tackle challenges.
- **Goal-Driven:** Focused on achieving objectives and exceeding targets.
- **Team Management:** Experienced in leading and managing teams effectively.
- **Collaborative Teamwork:** Proven ability to work well within a team to achieve common goals.
- **Deadline-Oriented:** Committed to meeting deadlines and delivering high-quality results.

To know more about me, about my technical expertise and detailed work experience.