YUVARAJ S YALI

CONTACT

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in YUVARAJ S YALI

YuvarajSYali-developer

SKILLS

Programming
Python, JavaScript (ES6+), Dart, C/C++

Frontend Development
Vue.js (Vuex, Vue Router), React.js, Flutter, HTML5, CSS3, Tailwind CSS, Figma (UI/UX Prototyping)

Backend Development
FastAPI, Flask, Node.js, Express.js, RESTful API Design, SQLAlchemy

Machine Learning
Model Deployment & API Integration (FastAPI + joblib), Data Preprocessing (NumPy, Pandas), Real-time ML Frontend (Vue.js)

IoT & Hardware
Arduino, Tinkercad (Circuit Simulation & Prototyping), Serial Communication, Sensor & Relay Integration, Smart Valve Automation

Databases
SQLite, ORM (SQLAlchemy)
APIs & Tools
Third-Party API Integration (Lichess, Chess.com), Git & GitHub, npm, pip

Deployment Platforms
Vercel, Render, Railway, Heroku

LANGUAGES

- English (Fluent)
- Kannada (Fluent)
- Hindi (Fluent)
- Sanskrit (Intermediate)

EDUCATION

Bachelor of Technology

Manipal institute of technology (2023-2027)
CGPA : 7.5

CERTIFICATIONS

FastAPI & Backend Development – Udemy
Learned to build secure, high-performance REST APIs using FastAPI, with JWT authentication, database integration, and deployment strategies.

Google Business Intelligence – Google
Gained expertise in creating data models, dashboards, and performance metrics to support strategic business decisions using BI tools.

Microsoft UX Design – Microsoft
Learned principles of human-centered design, accessibility, and design systems to craft intuitive and inclusive user experiences

PROFILE

Detail-oriented and solutions-driven Electronics and Communication Engineering student at Manipal Institute of Technology with hands-on experience in UI/UX design, full-stack web development, and Python-based data structures. Proven ability to lead and execute end-to-end tech projects, including Smart India Hackathon solutions. Currently interning as an SDE and actively building a strong foundation in frontend engineering and data science. Looking to contribute to dynamic, impact-driven teams where technology meets real-world problem-solving.

WORK EXPERIENCE

Chatloom (Freelance Project)
Freelance Frontend Developer & UI Designer
- Designing and developing frontend components for a real-world project.
- Collaborating with the team to refine user experience and interface design.
- Implementing best UI/UX practices to enhance usability and performance.

Web Development Engineer Intern
Endorsed by Shivamogga Smart City Ltd (Govt. of India)
- Independently conceptualized, designed, and developed CivilInc, a full-stack civic-tech platform to streamline urban governance and digital service delivery.
- Implemented an end-to-end grievance redressal system with cross-departmental coordination and real-time dashboards for municipal performance tracking.
- Officially recognized by Shivamogga Smart City Ltd for its alignment with smart city goals and recommended for pilot integration into government systems.

Policy Research Intern
Building Bharat – Political Innovation Startup
- Selected as a Policy Research Intern to support digital initiatives driving political awareness, citizen engagement, and governance reforms.
- Contributed to research tasks focusing on AI-driven voter influence models, public policy evaluation, and data-driven outreach strategies.
- Maintained strict confidentiality on organizational operations and policy documents as per non-disclosure requirements.

PROJECTS

CivilInc – Smart Civic Infrastructure Navigator
Solo Full-Stack Project | Endorsed by Shivamogga Smart City Ltd
- Designed and developed a full-stack civic-tech platform to digitize urban grievance redressal and improve inter-department coordination.
- Features include real-time complaint submission, status tracking, admin dashboards with project monitoring, budget tracking, and smart analytics.
- Enabled predictive planning and data-driven governance with interactive visualizations and department KPIs.
- Achieved official endorsement from Shivamogga Smart City Ltd for pilot integration, recognizing its potential for 60% faster resolution and full civic record digitization.

Chess Analyzer Pro – Full-Stack Analysis Tool
Solo Full-Stack Project
- Developed a full-stack web application using Node.js and Express to provide chess players with in-depth game analysis.
- Integrated with third-party APIs from Lichess.org and Chess.com to fetch and process real-time game data for analysis.
- Created an interactive and responsive dashboard with vanilla JavaScript and Chart.js to visualize key performance metrics, including accuracy trends and opening statistics.
- Engineered an "AI-Insights" feature to generate personalized recommendations and actionable feedback for player improvement based on performance data.

Smart Water Valve Control System – IoT Full-Stack Project
Arduino Solenoid Valve Controller – Smart IoT Farm Solution
- Engineered an end-to-end IoT system to monitor and control a water valve using an Arduino Uno, featuring a Python backend and cross-platform user interfaces.
- Developed a reliable communication protocol between the hardware and software using USB Serial, ensuring higher uptime (99.9%+) and faster response times (<100ms) compared to WiFi-based solutions.
- Built a real-time web dashboard with Flask and a responsive frontend, and a cross-platform mobile app with Flutter for remote monitoring, control, and system alerts.
- Implemented a smart suggestion engine with fixed-logic algorithms in the Python backend to analyze usage data and provide actionable alerts for high usage, pressure anomalies, and maintenance reminders..

Animal Health Management System (AHMS) – Full-Stack Health Surveillance Platform
Solo Full-Stack Project
- Architected a multi-level animal health surveillance system with a central landing page, dedicated web dashboards for state and district-level directors, and mobile applications for veterinarians and farmers.
- Developed role-specific, real-time dashboards using HTML, CSS, and JavaScript, featuring interactive maps (Leaflet.js) and data visualization (Chart.js) to monitor disease outbreaks, farm compliance, and vaccination coverage.
- Engineered two distinct mobile applications ("VetCare" for veterinarians and "Kisan Sahayak" for farmers) with offline capabilities, multi-language support (Kannada/English), and voice commands.
- Implemented a unified design system across all web and mobile platforms to ensure a consistent and intuitive user experience for all user roles, from government officials to rural farmers.

Quick Byte – Food Delivery App (UI/UX Design)
Design Project | Figma
- Designed a responsive and user-centric food delivery app UI in Figma, optimized for cross-device usability and visual consistency.
- Developed a scalable design system with reusable components, consistent typography, and a unified color palette for faster dev handoffs.
- Built interactive prototypes with real-world user flows, micro-interactions, and smooth transitions to simulate a production-level experience.
- Prioritized accessibility, intuitive navigation, and engagement, aligning design choices with UX best practices and mobile-first design principles.