

# John Joel Mota

St. Louis, USA • johnjoelmota0418@gmail.com • 314-445-8179

## Professional Summary

---

Results-driven Frontend Developer with 5+ years of experience designing and building accessible, mobile-first, and user-centric web platforms. Expert in architecting scalable solutions with component-based design systems and headless CMS, integrating secure payment gateways, and developing intuitive customer portals and data-driven dashboards. Proven track record of collaborating with cross-functional teams to translate complex requirements into high-fidelity web interfaces that enhance user engagement and streamline digital services for community-focused organizations.

## Technical Skills

---

**Languages & Frameworks:** JavaScript (ES6+), TypeScript, Python, Java, HTML5, CSS3, Node.js, React.js, Express.js, D3.js, Chart.js

**Backend & Databases:** RESTful APIs, GraphQL, NoSQL (MongoDB, Firebase, DynamoDB), PostgreSQL, MySQL, Redis, Microservices, Server-Side Architecture

**AI / Data / Machine Learning:** TensorFlow, PyTorch, scikit-learn, pandas, NumPy, OpenCV, Mask R-CNN, Data Visualization, Data Analytics

**Frontend & UI/UX:** Component-Based Design, Headless CMS, Mobile-First Development, Responsive Design, WCAG 2.0 AA Accessibility, SEO, Next.js, Gatsby

**Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), Version Control (Git), Infrastructure as Code (Terraform)

**Tools & Project Management:** Figma, JIRA, Trello, Agile Methodologies, Google Analytics, Chatbots, Payment Gateway Integrations

**Testing & QA:** Jest, Mocha, Cypress, PyTest, Selenium

## Education

---

Master's in Artificial Intelligence, Saint Louis University

## Experience

---

### AI Software Engineer

Iris Consulting Solutions, LLC

Jul 2025 – Present

Remote

- Led the frontend development of user-centric web platforms, focusing on mobile-first, responsive design and achieving WCAG 2.0 AA accessibility standards.
- Integrated secure payment gateways with online fillable forms for memberships and donations, creating a seamless and user-friendly checkout experience.
- Engineered intuitive, customer-facing account portals that allow users to easily manage profiles and alert preferences, aligning with service-oriented user journey goals.
- Integrated an AI-powered chatbot trained on site content to provide instant user support and improve information discovery.
- Built custom administrative dashboards with interactive data visualizations to provide staff with actionable insights on user engagement and platform performance.
- Designed and implemented a component-based architecture within a headless CMS, enabling content syndication and empowering staff with flexible, no-code page layout tools.

### Programming Intern

Synapse AI

Oct 2024 – May 2025

Remote

- Developed a public health services platform with a focus on intuitive navigation and a mobile-first user experience to enhance access to public information.
- Customized a Content Management System (CMS) with reusable content components and templates, empowering non-technical staff to easily manage and update site content.

- Engineered a seamless workflow for program registration and facility reservations, including appointment booking and payment integration.
- Organized and implemented a searchable document library, making public health documents easily discoverable through robust filtering and search functionalities.
- Executed a comprehensive Search Engine Optimization (SEO) strategy to improve the discoverability of public information, addressing content indexing and searchability requirements.

### **Full Stack Developer**

*Jun 2020 – Jul 2023*

*Citius Tech*

*India*

- Engineered high-performance, responsive websites focused on delivering an exceptional user experience across all devices, from mobile to desktop.
- Architected scalable frontend solutions using a component-based design system, ensuring design consistency and reusability across large-scale web applications.
- Ensured all web applications complied with WCAG 2.0 AA accessibility standards and integrated third-party APIs to create seamless, interactive user journeys.
- Collaborated with UX/UI designers and product managers to translate design wireframes and business requirements into accessible, high-fidelity web interfaces.

## **Key Projects**

---

### **Orthopedic Screw Classification (Research)**

*Saint Louis University Hospital*

- Developed and trained a Mask R-CNN computer vision model to accurately identify orthopedic screw manufacturers directly from X-ray images.
- Contributed to the frontend development of a companion mobile application, creating an intuitive interface for clinicians to upload and analyze images.

### **AI-Powered Educational Gaming & Analytics Platform (Research)**

*Saint Louis University*

- Architected a full-stack web platform where an AI model generates educational games in real-time to assess student cognitive skills.
- Developed a backend system to log and analyze user performance data, providing insights into analytical thinking, memory management, and strategic planning.
- Implemented a secure data portal for researchers to download anonymized performance data for academic studies.

### **Full-Stack Restaurant E-Commerce System (Client)**

*Medina Mediterranean Grill*

- Building a comprehensive, full-stack e-commerce solution including a public website and a companion mobile app with a unified backend.
- Implementing key features such as a real-time food ordering system, merchandise sales portal, and a catering request management system.
- Integrating an AI-powered chatbot to handle customer inquiries, improving user engagement and operational efficiency.

## **Leadership & Business Collaboration**

---

### **Committee Member, Student Government Association (ITS Committee)**

*Oct 2024 – May 2025*

*Saint Louis University*

*St. Louis, MO*

- Collaborate with administrators and cross-functional teams on technology initiatives, co-managing \$500,000 annual technology budget using data-driven analysis and statistical insights.
- Build partnerships across diverse stakeholder groups, effectively communicating technical recommendations to influence strategic campus technology decisions and drive organizational alignment.