

Mabel Lawrence

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PROFESSIONAL EXPERIENCE

- Gensler** | Software Developer September 2021 – Present
- Led the technical maintenance and upgrade of interior design guidelines websites for 10 key accounts
 - Spearheaded core product update from ASP to modern technologies to increase efficiency and user experience
 - Leveraged web technologies to create interactive experiences for museums, innovation centers, and offices
- Stand and Build** | Technical Designer August 2019 – February 2021
- Developed Arduino code to actuate rotational and translational animations for window displays on 5th Avenue
 - Integrated custom pages and CSS styling into Shopify website to boost client's online presence and sales

TECHNICAL PROJECTS

- Guidelines Tool Rebuild** | Backend Development, Frontend Development 2024 - 2025
Fullstack web application for building and editing an interior design guideline website, featuring a custom navigation hierarchy, page layouts, and libraries of items, documents, and architectural plans. {Payload, PostgreSQL, Next.js, React, CSS}
- Designed database structure to accommodate format of existing content while improving the admin experience
 - Architected application utilizing Payload, Next.js and React to give editors full control to update the website
 - Migrated hundreds of unique content pieces from old ASP Classic site to new tool with batch upload scripts

- Interactive Touchpoint and Editor** | Frontend Development, Custom Content Editor 2023
Touchscreen application that allows users to browse nested information and save content. Includes online tool for editing and previewing content as it will appear in the touchpoint. {React, Redux, Vite, GSAP, CSS, Electron, Express, MongoDB}
- Produced frontend app with custom animations to establish elegant way to browse densely-layered content
 - Established WebSocket communication to send and receive information on session content, saves, and mode
 - Built a full-stack editor to maximize flexibility in content creation and real-time previews based on client needs

- Syracuse University Alumni Wall** | Frontend Development, CMS Development 2022
Touchscreen experience that shows videos, generative patterns, and browsable content. {React, Redux, Vite, CSS, Wagtail}
- Upgraded alumni wall from analog photos to interactive application to boost school's accreditation performance
 - Customized a Django-based CMS (Wagtail) to manage content templates and store structured information

- Jackie Robinson Museum Exhibit** | Frontend Development 2022
Touchscreen exhibit where visitors can explore and queue stories to trigger an immersive experience. {React, Redux, CSS}
- Created web components and animations to realize designer's vision, contributing to C2A Exhibition Award
 - Executed WebSocket protocol to sync queue for two application instances and other exhibit playback elements

- Taste Not Waste** 2021
Mobile application that reduces food waste by alerting users when their uploaded grocery items will expire and suggesting recipes using the relevant ingredients. {React Native, Redux, Firebase, Google Vision, CSS, Edamam API}
- Implemented Google Vision OCR to parse food names from line items from uploaded or scanned receipt
 - Set up pre-populated form in React Native to allow users to view and edit uploaded items before saving them

EDUCATION

- Fullstack Academy, Grace Hopper Program** April 2021 – July 2021
17-week immersive fullstack software engineering course

- Cornell University, College of Engineering** August 2015 – May 2019
B.S Engineering: Mechanical Engineering for Design in the Arts

TECHNICAL SKILLS

JavaScript, HTML, CSS, React, Next, Vite, Redux, Express, PostgreSQL, SQLite, Python, PM2, Nginx, GSAP, Arduino

LEADERSHIP EXPERIENCE

- DXD Sustainability Co-Lead** | Gensler 2023-Present
- Outdoor Instructor** | REI, Cornell 2017-2022

SPECIAL INTERESTS

- Running** | I've convinced myself I enjoy this since 2021
- Lego** | I built the 7,541-piece Millennium Falcon set