

# MARY DAY

## Software Engineer



### CONTACT



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### EDUCATION

#### Carnegie Mellon University

- Bachelor of Electrical & Computer Engineering
- Graduated in May 2020
- IBM Thomas J. Watson Scholar 2016–2020



### CERTIFICATIONS

#### Google UX Design Professional Certificate

- Foundations of User Experience (UX) Design – Apr 2023
- Start the UX Design Process: Empathize, Define, and Ideate – Nov 2023
- Build Wireframes and Low-Fidelity Prototypes – Dec 2023



### PATENTS

“Intelligent Voice Recognized Task Organizer and Tracker” – (pending) US Patent Application No. P202106931US01 – Date of Application: March 27, 2023



### SKILLS

#### Front-End Engineering

JavaScript TypeScript React Next.js

HTML CSS Redux Component Design

#### UX & Product Design

Figma Wireframing Prototyping A11y

Information Architecture Design systems

#### Product & Systems Thinking

AI & Conversational UI API Integration Design

Scalable Front-End Systems Performance



### EXPERIENCE

#### Front-End Software Engineer

IBM, New York, NY, and San Jose, CA Sep 2020 – present

- Built and led front-end development for watsonx Assistant and watsonx Orchestrate, delivering AI-powered interfaces for natural language interaction and automation.
- Owned end-to-end implementation of complex, multi-step UI flows using React, TypeScript, and Redux, enabling users to configure and manage AI-driven workflows.
- Designed and shipped configuration experiences for AI features (conversational search, prompt instructions, RAG), improving clarity and supporting user trust in system outputs.
- Developed UI systems enabling AI agents to retrieve and act on organizational knowledge, supporting structured configuration and dynamic context.
- Led and supported production releases, balancing feature delivery with accessibility, stability, and product quality.



### PROJECTS

#### Watsonx Orchestrate: AI agents

IBM watsonx Orchestrate, May 2025 – present

- Built front-end features enabling AI agents to retrieve and act on organizational knowledge using retrieval-augmented generation (RAG) and dynamic context, improving response relevance and usefulness.
- Designed intuitive configuration UIs for managing knowledge sources, making complex AI workflows easier to understand and control.
- Partnered closely with design and accessibility to identify and resolve issues, eliminating 100% of accessibility violations and achieving WCAG compliance by deadline.

#### Generative AI Base LLM

IBM watsonx Assistant, Apr 2024 – May 2024

- Shipped UI features surfacing LLM capabilities, including conversational search, general-purpose answering, and customizable prompt instructions, enabling users to directly interact with and shape model behavior.
- Focused on clarity, transparency, and safe interaction patterns, improving usability and user trust in AI-powered experiences.

#### Custom Extensions

IBM watsonx Assistant, Nov 2021 – Jun 2022

- Built front-end experiences for integrating external systems via custom REST APIs, expanding platform extensibility through third-party services.
- Leveraged OpenAPI specifications to streamline configuration and validation workflows, reducing complexity in setting up integrations.

#### New Information Architecture

IBM watsonx Assistant, Mar 2021 – Nov 2021

- Co-designed and implemented a redesigned assistant integration creation flow using React, TypeScript, Redux, react-intl, and Storybook, improving usability and structure of the setup experience.
- Refactored a 500+ file integrations codebase using modern front-end patterns, increasing maintainability and scalability.
- Embedded accessibility best practices into new IA patterns, eliminating 100% of known violations at launch.