

# John Moscarillo

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## Designing Webs, Inc

March 2025 - Present

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### Principal Full-stack Engineer

AI Consulting & RAG System Development

- Advising clients on end-to-end integration of large language models into web platforms, including prompt engineering and deployment best practices.
- Designed and implemented advanced retrieval-augmented generation (RAG) pipelines tailored to Renewable Energy and Mental Health domains.
- Defined data ingestion workflows, embedding strategies, and vector database schemas supporting high-precision knowledge retrieval and contextual generation.

## Designing Webs, Inc

January 2024 – March 2025

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### Principal Front-end & Full-stack Engineer

Recipe to Kitchen [www.recipe2kitchen.com](http://www.recipe2kitchen.com)

- Co-founded and led design and engineering of a next-generation recipe-to-kitchen web application that automates recipe ingestion into shopping lists and recipe cards.
- Crafted brand identity and high-fidelity UI mockups in Photoshop, Illustrator, and Figma, iterating with user feedback to refine workflows.
- Architected full-stack solution using React, Remix, TypeScript, and Tailwind CSS on the frontend; Prisma and PostgreSQL on the backend.
- Integrated Instacart API for seamless grocery ordering and leveraged LLMs extensively (for recipe parsing, data ingestion, and dynamic content generation).

- Engineered and deployed mobile ports to the iOS App Store and Google Play, adapting web functionalities for native-like experiences.

## **Qumulo**

**April 2023 – January 2024**

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### **Staff Front-end Engineer**

Nexus | [www.qumulo.com/nexus](http://www.qumulo.com/nexus)

- Executed various enhancements for the "core web UI," a comprehensive website codebase integrating both legacy and modern JavaScript frameworks, ranging from Backbone models to React Hooks, with substantial use of Redux.
- Established the Qumulo Component Library (QCL) to serve as the foundational UI component repository for all applications within Qumulo. This private library is hosted on AWS CodeArtifact and developed using TypeScript, React, Tailwind, Recharts, and D3.
- Led the architecture and implementation of the UI for "Nexus" utilizing a tech stack that includes TypeScript, Next.js, React, QCL (Qumulo Component Library), AWS Timestream, and PostgreSQL.
- Implemented GitHub continuous deployment workflows leveraging GitHub Actions.

## **Designing Webs, Inc**

**September 2022 – April 2023**

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### **Principal Front-end & Full-stack Engineer**

WX Now | [www.wxnow.app](http://www.wxnow.app)

- Spearheaded architecture and development of responsive single-page application (SPA) with progressive web features for optimal performance and engagement.
- Engineered and deployed mobile ports to the iOS App Store and Google Play, adapting web functionalities for native-like experiences.

- Led in-house design of interactive, responsive web interfaces, balancing user-centric layouts with technical constraints.
- Built dynamic UIs using React and Recharts, and integrated Mapbox for advanced mapping visualizations.
- Developed scalable backends with Remix and Express (managing GFS tile servers) to support rich frontend features.

## Designing Webs, Inc

January 2022 – September 2022

### Principal Full-stack Developer

International Society for ECT and Neurostimulation | [www.isen-ect.org](http://www.isen-ect.org)

- Designed and implemented public and private site architectures with role-based authentication and personalized profile workflows.
- Engineered a subscription-based e-commerce system, integrating payment gateways and subscription management for seamless user journeys.
- Crafted a responsive brand-consistent UI using React, Recharts, and Mapbox to deliver engaging data visualizations and maps.
- Developed robust backends with Remix, PostgreSQL, and AWS SES for email services, ensuring security and high performance.
- Established a CI/CD pipeline via GitHub Actions and deployed to Vercel for global delivery.

## Premise Data

2020 - 2022

### Senior Front-end Engineer | [Premise](#)

- Developed new features for existing web application using React with flow.
- Worked closely with product management and product design to engineer the company's new customer portal web application, built using React using

Typescript, HapiJS, and CubeJS, hosted with GCP to replace legacy customer portal.

- Built Git hub continuous deployment workflows using git hub actions.

## **Vaisala, Inc**

**2015 - 2020**

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**Senior Software Engineer, Senior UX and Product Designer | [Vaisala](#)**

- Designed and developed two map-based interfaces driven by multiple microservices using ReactJS, Redux, and Typescript.
- Established and confirmed with users and stakeholders the user personas and appropriate use cases for our applications.
- Iterated with users, designers, team members, and stakeholders as often as possible using sketches, whiteboard sessions, high-fidelity mockups to communicate and verify alignment with business goals and successful user experience.
- Architected and coded JavaScript frontends incorporating new code with existing legacy backends.

## **3TIER, Inc.**

**2009 - 2015**

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**Director of User Experience | [3TIER - Vaisala](#)**

- Enhanced but also managed customer and internal software applications for the research and development division of 3TIER, Inc.
- Maintained a voice for our users within the company by frequently communicating with users and sharing that communication with stakeholders and engineers.
- Incorporated user persona's, use cases, customer journey studies, hallway usability testing and heuristic analysis as the drivers for making informed decisions on what and often what not to build.

## 3TIER, Inc.

2007 - 2009

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### Director of Web Engineering | [3TIER - Vaisala](#)

- Created and maintained roadmap for team, developing successful company dashboard on time given budget and company goals.
- Guided the product development process by bridging product management and software development through communicating and resolving unseen issues before moving products to development.
- Incorporated design process with the development agile process to iterate frequently and quickly on many user-tested interactive prototypes.
- Created an award winning\* product on time which enhanced 3TIER's presence in the industry and consequently helped 3TIER acquire funding to move forward with more software product development.
- *\*Winner 2009 AWEA Commercial Achievement Award*

## Microsoft Corporation

2006 - 2007

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### Software Development Engineer | [Sidebar Gadgets](#)

- Designed and developed default operating system sidebar gadgets for Windows Vista & Windows 7
- Daily collaboration with designers, developers, project managers, and test engineers
- Determined the code standards for the default sidebar gadgets.
- Developed Internationalized and accessible HTML, CSS, and JavaScript compliant to the standards of the Windows Operating System.

## Foote, Cone & Belding

2001 - 2006

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## **Lead Developer**

- Executed all online initiatives for FCBi Seattle, one of world's leading advertising agencies.
- Continual communication with creative executives, account executives and graphic designers
- Always delivered on time and within budget online initiatives under rigorous ad agency timelines. Extremely successful HP web initiatives were HP Works, HP \* PurchasEdge, and HP SureSupply due to focus groups, usability testing, SEO and by building channel partner relationships.
- Clients included HP, Nautilus, Speakeasy, Group Health, AAA, Tully's

## **JDA Advertising**

**1998 - 2001**

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### **Lead Web Developer**

- Executed all online initiatives for JDA Advertising. An advertising agency dedicated to integrated marketing
- Continual communication with creative executives, account executives and graphic designers
- Always delivered on time and within budget online initiatives under rigorous ad agency timelines.
- Clients included @Home Networks, Avid Technology, Broadband Office, Classmates, eCharge, Fujitsu, General DataComm, GlobeTrotter, HomeGrocer, HotDispatch, IBM, MindSpring, Novell, Red Hat Software, Phoenix Technologies

## **Publications**

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### **Big Book of Windows Hacks**

Preston Gralla, O'Reilly Media  
Released October 2007

## Chapter 02 "Hacking the Interface"

### Technical Knowledge

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- HTML5 •CSS3 •Typescript •JavaScript •Python •PHP
- React •Remix •Next.js •Prisma •D3 •Mapbox •Django •Drupal
- Google Cloud •AWS
- PostgreSQL •MySQL
- LLM integration •Advanced RAG
- Figma •Photoshop •Illustrator

### Education

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Education University of Colorado, Boulder, CO Bachelor of Arts Majors: Psychology, Biology

Art Institute of Colorado, Denver, CO Associate Degree Major: Visual Communications

### Portfolio

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Portfolio [www.designingwebs.tv](http://www.designingwebs.tv)