



# MARCUS BASS

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## Summary

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Frontend Software Engineer experienced in designing, building, and scaling modern web applications with a focus on UI Architecture. Delivered scalable UI solutions and reusable design systems that enhanced development efficiency and user experience through collaboration with product, design, and engineering teams. Focused on advancing into a UI/Frontend Architect role, emphasizing strengths in system design and technical leadership.

## Skills

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- Agile / Scrum Leadership
- Micro-Frontend Architecture
- Cross-Functional Collaboration
- CI/CD & DevOps (GitLab, AWS, Azure)
- Frontend Architecture & System Design
- GraphQL & API Integration
- React.js, TypeScript, Next.js
- UI Scalability & Accessibility
- Component Libraries & Design Systems
- Performance Optimization (Webpack, Vite)

## Experience

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Spring EQ | Conshohocken, PA  
**Senior UI/UX Developer**  
*03/2025 - Current*

- Architected and delivered a scalable co-borrower application flow for a HELOC platform, supporting complex multi-user workflows
- Designed and implemented reusable, accessible UI components using React, TypeScript, and MUI to enhance consistency and maintainability
- Collaborated with cross-functional teams to define and build high-performance frontend solutions that met system architecture goals
- Applied component-driven architecture and modern state management, enhancing scalability and minimizing defects
- Contributed to frontend architecture decisions and coding standards through code reviews and agile processes, ensuring adherence to best practices
- Architected AI-enabled microfrontend ecosystem using React and Module Federation, integrating LLM services including Claude, OpenAI, and Codex across independently deployable UI domains while maintaining shared contracts and system consistency
- Designed a cross-microfrontend AI orchestration layer using hooks and service adapters to standardize prompt execution, streaming responses, and error handling across React applications
- Built composable AI-driven React components (chat interfaces, generative forms, contextual assistants) with strict schema validation and guardrails, reducing runtime rendering errors by ~30%

- Established a shared design system with AI-aware components (prompt-driven inputs, streaming text renderers) reusable across microfrontends, accelerating feature delivery by 25%+
- Implemented edge-optimized rendering strategies using React Server Components and Next.js SSR to support low-latency AI interactions, improving perceived response times by ~40%
- Developed abstraction layers over LLM providers (Claude, OpenAI, Codex) within frontend service boundaries, enabling seamless provider switching without breaking microfrontend contracts
- Defined and enforced typed interfaces using TypeScript and JSON Schema for AI responses across microfrontends, significantly reducing integration bugs and inconsistent data handling
- Designed resilient client-side data pipelines with retry logic, circuit breakers, and fallback UI states to handle LLM latency and failure scenarios in distributed frontend environments
- Led architectural patterns for safe rendering of AI-generated content in React, including sanitization, markdown parsing, and component whitelisting to mitigate XSS and malformed output risks
- Integrated observability into AI-driven frontend workflows using custom hooks and analytics pipelines to track prompt performance, token usage, and user engagement metrics
- Spearheaded microfrontend communication strategies using event-driven architecture and shared state patterns to propagate AI-generated insights across isolated applications
- Enabled AI-assisted development workflows using Claude and OpenAI Codex, reducing prototyping time for new microfrontend features by ~35%
- Optimized AI-heavy frontend performance through bundle splitting, lazy loading, and module optimization, improving Core Web Vitals and reducing initial load size

Guild Mortgage | San Diego, CA  
**Senior Full Stack Software Engineer**  
*11/2022 - 03/2025*

- Spearheaded development of a shared component library, reducing development time by 125+ hours monthly and improving UI consistency
- Architected and implemented micro frontend architecture, enabling modular development and improved scalability across applications
- Led modernization efforts, including Node.js upgrades and Webpack-to-Vite migration across 8 SPAs, significantly improving performance
- Developed document processing application, saving 30+ hours weekly through improved operational efficiency
- Rebuilt React Native application, enhancing user engagement for customers and loan officers

#### **Leadership & Responsibilities:**

- Served as frontend subject matter expert, defining coding standards and best practices

- Led frontend architecture discussions and guided development across teams
- Built and maintained CI/CD pipelines, ensuring high-quality and consistent code delivery
- Optimized applications for performance, scalability, and maintainability

Amazon | Seattle, WA  
**Senior Software Engineer**  
*01/2022 - 12/2022*

- Delivered frontend solutions using React, TypeScript, and Redux for AWS OpenSearch, enhancing user engagement
- Integrated GraphQL middleware to streamline data flow and enhance system performance
- Collaborated with product and UX teams to design scalable interfaces, prioritizing user experience
- Maintained high code quality through architecture best practices and code reviews

DevMountain & Nucamp Coding  
 Bootcamp | Remote  
**Senior Instructor**  
*01/2020 - 11/2022*

- Mentored and trained 30+ students in frontend development, enhancing their readiness for software engineering roles
- Delivered instruction on JavaScript, React, and software design principles (S.O.L.I.D.), fostering deeper understanding of core concepts
- Guided students through real-world projects, strengthening their technical and problem-solving skills

Software Engineer I | Las Vegas, NV  
**Allegiant Air**  
*02/2020 - 01/2021*

- Developed and maintained AngularJS applications, enhancing system performance and user experience
- Built IBM Watson AI Slackbot to facilitate internal Agile transformation
- Optimized legacy systems while ensuring code quality and compliance with security standards

MobileSoft | Las Vegas, NV  
**Team Lead**  
*03/2019 - 02/2020*

- Led frontend modernization initiative, migrating from jQuery to modern JavaScript frameworks to enhance user experience
- Introduced Agile practices, fostering increased productivity and collaboration within the team
- Provided technical leadership through code reviews and mentoring, strengthening code quality and team skills

## Education and Training

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Lambda Computer Science Academy  
*2019*

## Certifications

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- Scrum Developer Certification 2019

## Technical Skills

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- **Frontend:** React.js, Next.js, TypeScript, JavaScript, HTML5, CSS, SCSS, MUI
- **Architecture:** Micro-frontends, Component Design Systems, State Management
- **Backend & APIs:** Node.js, Express, GraphQL, PHP (Laravel)
- **Cloud & DevOps:** AWS, Azure, CI/CD (GitLab)
- **Databases:** MongoDB, PostgreSQL, DynamoDB
- **Testing:** Jest, Cypress, Mocha
- **Tools:** Webpack, Vite, NPM, Yarn, Jira