

Kai Jenkins

Senior Software Engineer | Generative AI, Full-Stack Platforms & Product Engineering

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Experience

Delta Air Lines

Senior Software Engineer

Atlanta, GA

Jan 2024 – Present

- Built and launched Delta's internal AI design assistant for the Mach 1 Design System, enabling engineers and business stakeholders to transform screenshots, wireframes, and legacy interfaces into design-compliant prototypes and reducing concept-to-UAT delivery from 3–6 months to approximately 24 hours.
- Designed and implemented a Retrieval-Augmented Generation platform using structured design-system documentation as an enterprise knowledge base, supplying LLMs with relevant context, constraints, component guidance, and implementation examples for more reliable retrieval and code generation.
- Created automated LLM evaluation and benchmarking pipelines covering documentation retrieval, reasoning, code generation, hallucination detection, and design compliance, enabling regression testing and quality measurement for each AI release.
- Developed serverless AI observability infrastructure using AWS Lambda and API Gateway to monitor prompt volume, token consumption, session duration, hallucination rates, and design compliance, supporting data-driven improvements to AI quality and platform adoption.
- Built Mach Core, Delta's framework-agnostic component platform using TypeScript and Tailwind CSS, driving adoption across more than 15 engineering teams and contributing to an estimated \$9 million in engineering cost avoidance through reusable components and reduced development effort.
- Led a cross-functional team of five engineers across technical architecture, implementation, roadmap planning, code reviews, and delivery of Delta's next-generation design-system and AI-platform capabilities.

Delta Air Lines

Software Engineer

Atlanta, GA

Jul 2022 – Dec 2023

- Modernized high-traffic SkyMiles experiences by migrating legacy workflows from on-premises infrastructure to AWS, reducing average page-load times from approximately eight seconds to four-to-five seconds.
- Built secure, customer-facing account-management experiences, including username updates and password-reset workflows with real-time validation, comprehensive error handling, and integrations across customer identity systems.

Skills

Generative AI: Retrieval-Augmented Generation, LLM applications, AI agents, prompt engineering, context construction, automated evaluation, benchmarking, hallucination detection, AI observability

Languages and Frameworks: TypeScript, JavaScript, Angular, React, Next.js, Tailwind CSS, HTML, CSS

Cloud and Backend: AWS Lambda, API Gateway, serverless architecture, REST APIs, system integrations

Testing and Delivery: GitLab CI/CD, Jest, automated regression testing, unit testing, integration testing

Platforms and UX: Developer tooling, component libraries, design systems, design tokens, Storybook, Figma, WCAG 2.1 accessibility

Education

University of North Georgia

Computer Science Coursework

Dahlonega, GA

Aug 2019 – July 2021