

## Aki Perez

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### Summary

Senior Software Engineering Leader with 15+ years of experience architecting enterprise web applications and leading distributed engineering teams at Cisco, eBay, and Spirit Airlines. Combines deep Angular and TypeScript expertise with hands-on AI integration — including a self-built, production-live RAG assistant that orchestrates GPT-4o, Qdrant vector search, and n8n automation for real-time appointment booking and product intelligence. Google-certified in Generative AI with applied experience in LLM orchestration, prompt engineering, and agentic workflows. Fluent in English and Spanish; experienced delivering features for international markets.

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### Skills

**AI/ML & Automation:** LLMs, Prompt Engineering, Retrieval-Augmented Generation (RAG), Vector Embeddings, Qdrant, OpenAI API (GPT-4o), n8n, Make.com, Trigger.dev, MCP Servers (Model Context Protocol), Agentic AI Systems

**Frontend Development:** Angular (Universal, NgRx), React, TypeScript, JavaScript, HTML5, CSS3, SASS/LESS, Component Libraries, Design Systems, Responsive Design, SEO, jQuery

**Backend & Infrastructure:** Node.js, Java, PHP, Python, REST APIs, MySQL, MSSQL, Docker, GCP, Terraform, NGINX, Linux, Apache, WordPress (Themes & Plugins)

**Testing & Quality:** Cypress, Jasmine, Karma, JEST, E2E Testing, Unit Testing, A/B/n Testing, Google Analytics (GA4), GTM, Adobe Target

**Leadership & Engineering Practice:** Team Building, Cross-Functional Leadership, Agile/Scrum, Hiring & Mentorship, Technical Architecture, Release Management, CI/CD Pipelines, Code Review

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### Experience

**Spirit Airlines, Inc.** | Dania Beach, FL **Lead Software Engineer** | March 2021 – May 2026

- Re-architected the booking engine with CMS-driven dynamic product bundles, increasing checkout conversion rate by 17%
- Built and led an E2E and unit testing suite using Cypress and Jasmine, raising code coverage from 35% to 85% and eliminating manual regression testing cycles
- Led a 13-engineer UI team through architectural guidance, hands-on development, and structured code review processes
- Initiated and built an internal Angular component library adopted across 3 applications — including shared header/footer, calendar widgets, and promotional banners — eliminating duplicate implementations and accelerating feature delivery
- Architected multilingual framework for web and mobile supporting 6 languages; deployed Spanish for Latin American routes

**Cisco Systems, Inc.** | Herndon, VA **Manager Customer Delivery** | August 2019 – March 2021

- Transformed a legacy WordPress platform into a modern Java/Angular micro frontend architecture, eliminating 2-hour manual deployment ceremonies and enabling automated weekly releases
- Built and scaled CI/CD pipelines on GCP using Terraform, migrating from manual code deployments to an automated release cadence

- Led 15-person distributed engineering team (4 US, 11 India) across enterprise telecom initiatives for global clients
- Implemented Angular Universal for SSR and architected advanced NgRx facades, effects, and services with full JEST/Cypress test coverage

**Cisco Systems, Inc.** | Gaithersburg, MD **Lead Web Developer** | March 2018 – August 2019

- Oversaw architecture and execution of cross-browser web applications for enterprise telecom clients including Rogers, Verizon, Orange, Comcast, and AT&T
- Established version control, testing, and release management processes; led interviewing, hiring, and onboarding of frontend engineers

**BroadSoft, Inc. (Acquired by Cisco)** | Gaithersburg, MD **Web Developer** | July 2016 – March 2018

- Directed a 10-developer team building the Xfinity Mobile retail launch application in Angular 4 — delivered on time for a national retail rollout
- Built greenfield retail web applications using Angular 4 and Webpack for Comcast and other major telecom clients

**eBay Enterprise, Inc.** | King of Prussia, PA **Lead Web Developer** | July 2014 – July 2016

- Led a 10+ person team delivering over 96,000 development hours to clients including Ralph Lauren, MLB, and GNC
- Reduced P1/P2 production defects by 40% through strategic QA process improvement

**Hearst Communications** | New York, NY **Front End / Mobile Development Engineer** | July 2011 – July 2014

- Led development for a 2,700-blog WordPress network; created multiple iOS applications for Hearst newspaper brands
- Delivered full-stack solutions across web, iOS, and backend environments

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## Projects

**Botanica ChatBot — RAG-Augmented AI Assistant** | Live, May 2026 | Self-Initiated

Built a production-ready conversational AI assistant embedded in a BigCommerce storefront. Architected a self-hosted n8n orchestration layer routing intent across GPT-4o, Qdrant vector search, Google Calendar, and the BigCommerce API — handling appointment booking, product recommendations, and FAQ responses end-to-end.

*Stack: JavaScript, n8n, OpenAI GPT-4o, Qdrant, BigCommerce API, Google Calendar API, Docker*

**Spirit Airlines Booking Engine Re-Architecture** | 2021–2024 | Angular 16, TypeScript, Webpack

**Spirit Airlines UI Component Library** | 2021–2026 | Angular, TypeScript, SASS, npm

**Cisco Micro Frontend Platform Migration** | 2019–2021 | Angular, Java, GCP, Terraform, Docker

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## Education & Certifications

**St. Joseph's University** | MS, Organizational Management **St. Joseph's College** | BS, Organizational Management | Minor: Computer Information Systems

**Certifications:** Google AI Essentials (Mar 2026) · Generative AI Leader — Google Cloud (Mar 2026) · Introduction to Generative AI Learning Path — Google Cloud (Apr 2026)

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## Languages

English: Native | Spanish: Native