

Alyssa Trapp — Lead Software Engineer / Solutions Engineer

Barnstable MA, US 02648 | +1 (860) 462-6031 | lyss.trapp@gmail.com

----- SUMMARY -----

Lead Software Engineer with 12 years of full-stack (frontend-leaning) software development expertise and 6 years of proven leadership experience. Skilled at building high-performance teams, mentoring engineers, and driving product impact through strategic technical decisions.

----- CORE SKILLS -----

Languages & Frameworks: TypeScript / JavaScript, React, React Native, [Node.js](#), PostgreSQL

Frontend & Mobile: React, React Native, Expo, cross-platform mobile development

Cloud & Infrastructure: AWS (S3, EC2, Lambda)

Leadership & Product: Team building & mentorship, experimentation, product roadmapping, cross-functional collaboration, technical architecture, agile methodologies, system design

AI & Tools: Coding Agents, LLM integrations, RAG, MCP, Figma

----- EXPERIENCE -----

Lead Software Engineer - AI Solutions, Tradehounds

Feb 2025 - Jan 2026

- Delivered end-to-end product leadership for 10+ production features, driving 20x increase in build throughput and enabling faster experimentation cycles for an 500k+ userbase; collaborated cross-functionally with product and design to prioritize high-impact initiatives.
- Designed a production RAG pipeline using Node.js, LangChain, Pinecone, and LLMs (GPT-5), integrating intent-aware routing to query a 7M-item proprietary product catalog.
- Built a serverless sentiment analysis service (Node.js, AWS Lambda) that surfaced job-site blockers directly from user text threads, enabling faster operational response.
- Orchestrated a speech-driven data ingestion system from native ASR in React Native to serverless semantic analysis that converted informal spoken material lists into structured, operational job-site records.

Engineering Manager & Lead Frontend Engineer, Stellar Elements (Amdocs Studios)

June 2023 - Jan 2025

- Led a high-performing 8-person engineering pod across mobile and web; mentored engineers through structured code reviews and one-on-ones, resulting in 60% of the team earning promotions within two years.
- Partnered cross-functionally with product and design leads to define technical roadmap for platform migration and feature development; drove R&D initiatives for emerging technologies (AI-powered code generation) to improve delivery efficiency.
- Owned the technical roadmap and phased delivery strategy for an on-water assistance React Native application, leading build vs. buy evaluation for map, weather, and location features in close partnership with product and design.

Engineering Manager & Senior Frontend Engineer, ADK Group

June 2019 - June 2023

- Delivered a self-service React Native telecommunications application that reduced a telecommunications provider's support call volume by 30%, leading a cross-functional team using TypeScript and GraphQL.
- Architected a web-embedded accessibility plugin for synchronized video and transcript playback, and coached a teammate in React via working sessions and structured code reviews.
- Built a React Native MVP for a telehealth company, enabling secure patient communication and account management features that successfully scaled beyond launch.

Frontend Engineer, ADK Group

Sept 2015 - June 2019

----- EDUCATION -----

Bachelor of Science - BS, Computer Science, Union College

Alice P. and Donald C. Loughry Prize in Computer Science

- Researched and evaluated body posture and ball trajectory to determine fastpitch softball pitch types using computer vision and machine learning.