

# Alyssa Trapp — Lead Software Engineer / Solutions Engineer

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## 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 20× 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.