JONATHAN MADDISON

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PROFESSIONAL SUMMARY

Staff-level engineer specializing in scalable front-end systems and AI integration. Expert in React/React Native, microservices architecture, and cloud deployment. Track record of leading teams, mentoring developers, and delivering complex architectural changes while maintaining velocity.

TECHNICAL SKILLS

Frontend: React, TypeScript, Next.js, React Query, Redux, Module Federation, Webpack, Vite, Tailwind CSS, React Native, Expo, Native Modules, App Store Deployment, Mobile CI/CD

Backend: Node.js, Nest.js, PostgreSQL, Event-Driven Architecture, Domain-Driven Design

DevOps: AWS (Lambda, ECS, CloudFormation), Docker, GitLab/Github CI/CD, Monitoring

AI: OpenAI APIs, Local LLM Integration (llama.cpp), RAG Systems, Tool Calling, AI Enhanced Development

INDEPENDENT AI PROJECTS

Advanced AI Integration Projects   *2024 - Present*

- Built React Native app integrating billion-parameter LLMs (Llama 3.2) locally on iOS devices
- Implemented RAG systems for semantic search and data analysis in government transcripts
- Developed AI-powered meal planning application with intelligent recipe generation
- Learned best practices for AI-assisted development and code quality

PROFESSIONAL EXPERIENCE

Staff Frontend Engineer · Paige   *2024*

- Led team building AI-integrated digital pathology viewer in regulated medical environment
- Spearheaded microfrontend architecture, reducing release complexity while maintaining compliance
- Established deployment strategies with site reliability team
- Successfully launched product securing major partnerships

Senior Frontend Engineer · Paige   *2021 - 2023*

- Led feature development and performance improvements for digital pathology case management tool
- Architected and implemented frontend tagging system for client-facing product across our case management frontend and pathology viewer applications
- Collaborated with cross-functional teams on product functionality and UI/UX

Senior Software Engineer · Grasshopper Bank   *Mar 2021 - Oct 2021*

- Led migration to microservices architecture with Nest.js, AWS Lambda, and event-driven patterns
- Implemented authorization service with flexible role mapping for banking requirements
- Mentored junior engineer while delivering full-stack solution on schedule

Software Engineer · Grasshopper Bank   *2018 - 2021*

- Added essential features to the bank onboarding process and mobile application with React/React Native and Node.js
- Developed custom Native Modules enabling critical mobile functionality
- Led implementation of unified web/mobile deployment strategy
- Established automated testing improving release reliability across platforms

Software Engineer · OTTO Health   *2017 - 2018*

- Led transition from Cordova to React Native for mobile applications
- Improved release process and reduced bugs in critical user flows

EDUCATION

Master of Public Administration · University of Vermont *(2011)*

B.S. Community and International Development · University of Vermont *(2009)*