**Kevin Andrews**

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**SUMMARY**

Full-stack engineer with 5+ years building production systems, specializing in React/TypeScript applications and recent focus on AI integration and developer tools. Architected scalable solutions processing 160M+ records and 43K+ messages, with proven ability to optimize performance (10min → 5min query times). Successfully integrated language models into production workflows including knowledge graph processing ($0.00002/document) and batch optimization systems. Experienced in rapid prototyping, API integration, and translating complex requirements into user-friendly tools. Passionate about AI-assisted development and creating AI systems that enhance productivity for both developers and everyday users.

**EXPERIENCE**

**Senior Data Analyst & Web Developer**

Bonanza.com August 2019 - Present, Seattle

* Previous roles at company since 2016 as support agent and marketing project manager.
* Architected full-stack analytics platform processing 160M+ order records from legacy MySQL 5.7 database, optimizing query performance from 10+ minutes to under 5 minutes using Polars and advanced SQL techniques.
* Built React/TypeScript dashboards with 13 internal views using Tanstack Router/Query, implementing complex data visualizations while working within constraints of read-only database access.
* Developed AI-powered listing optimization tool using OpenAI batch API to enhance 4,500 product titles in 30 minutes at $0.00003/listing, improving marketplace SEO and conversion rates.
* Engineered scalable multi-tenant architecture with PostgreSQL and Express backend on AWS, implementing secure authentication and private routing for internal team and future B2B customers.
* Maintained production systems serving daily active users while managing Google Ads, email campaigns, and cross-functional technical projects as acting General Manager.

**Freelance Software Engineer**

Fred Astaire Dance Studio November 2023 - Present

* Built production SaaS platform as solo engineer: Full-stack SMS system enabling 12 studios to engage 9,000+ leads directly from Zoho CRM, processing 43,000+ messages.
* Architected scalable infrastructure with complex multi-tenant routing logic to dynamically switch between studio-specific Twilio numbers based on agent context and permissions.
* Optimized user experience by creating custom Zoho CRM extension with intuitive chat interface, reducing friction for non-technical users while maintaining secure access control.
* Shipped end-to-end solution in 4 weeks using Next.js, TypeScript, Prisma, PostgreSQL, with automated welcome sequences, webhook orchestration, and real-time message synchronization.
* Maintained and scaled production system with Sentry monitoring, rapidly iterating based on user feedback,diving into unfamiliar Zoho ecosystem to enhance features and resolve edge cases.

**Full Stack Engineer**

Masakali Retreat June 2020 - Present

* Built production booking platform from scratch: React/Redux → Next.js migration.
* Integrated real-time inventory sync across Booking.com, Airbnb via Smoobu API.
* Replaced polling with webhook architecture: 3+ seconds → instant updates.
* Implemented complex availability logic for 5 listings with conditional blocking rules.
* Processed $30K in direct revenue with zero double-bookings.
* Integrated Indonesian payment processor Xendit after Stripe with limited documentation.
* Built multi-CDN image optimization and automated lead capture system.

**PROJECT**

**Knowledge Graph MCP Server**

[github.com/Andrewske/kg-memory-mcp](https://github.com/Andrewske/kg-memory-mcp) • July 2025 - Present

* Production AI system processing documents into semantic knowledge graphs.
* 3-stage distributed pipeline: extraction → concepts → vector embeddings.
* 85-second processing, $0.00002/document, 106 triples + 424 embeddings per doc.
* Built both HTTP and STDIO versions following MCP protocol.
* Integrated academic research into production implementation.
* Evaluated model capabilities across GPT-4 variants for optimal pipeline performance.

**AI Product Title Optimizer**

Bonanza • August 2025 - Present

* Batch processing system using OpenAI GPT-4o-mini for e-commerce optimization.
* Processes 4,500 listings in 30 minutes at $0.00003/item cost.
* Enterprise-scalable solution with linear performance characteristics.

**Multi-Agent Personal Management System**

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* Custom AI agent ecosystem using Claude Code for multi-project workflows.
* Built domain-specific agents: career coaching, technical documentation, project management.
* Advanced prompt engineering and agent specialization techniques.
* Leveraged MCP architecture for personal knowledge management beyond traditional coding.

**EDUCATION**

**BS in Business Administration with a specialization in marketing**

Central Washington University • Ellensburg, WA • 2026

**SKILLS**

Languages: JavaScript, TypeScript, Python, SQL

Frontend: React, Next.js, Tailwind CSS, Responsive Design

Backend: Node.js, Express.js, PostgreSQL, MySQL, RESTful APIs, Prisma

AI/ML: OpenAI API, Language Model Integration, Prompt Engineering, Vector Embeddings, MCP Protocol

Tools & Infrastructure: Git/GitHub, AWS, Vercel, Jest, Performance Optimization, Webhook Architecture, Cloud Infrastructure (AWS)

Core Competencies: Full-Stack Development, System Architecture, Database Optimization, Multi-API Integration