Kevin Koehler

Senior Software Engineer & Technical Lead

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SUMMARY

Senior software engineer and technical lead with nearly a decade of professional experience. Builds full-stack products from scratch, architects systems, and develops engineering teams. Background in machine learning and NLP.

TECHNICAL SKILLS

Languages & frameworks: TypeScript, JavaScript, Python, React, Next.js, React Native, Node.js

Data & infrastructure: PostgreSQL, SQLite, Neo4j, GraphQL, GCP, Docker, Linux, CI/CD

Machine learning: TensorFlow, Keras, scikit-learn, spaCy, NLP, local LLM inference tooling

EXPERIENCE

RUNNR Delivery

July 2023 – Present

Technical Lead

- Built the initial logistics platform from scratch; now serves **2,000+ businesses** and approximately 30 courier companies, processing approximately **5,000 deliveries monthly** from booking through billing.
- Designed a **custom pricing language** and formula editor, enabling couriers and customer success staff to configure automated delivery quotes without code changes.
- Own platform architecture and turn product requirements into engineering sprints, building across React, React Native, TypeScript, Node.js, PostgreSQL, and GCP.
- Lead and mentor **three engineers**, developing beginners into production contributors, including one who started with no programming experience.

Rivercity Technology Services Ltd.

August 2021 – July 2023

Director of Software / Lead Developer

Director of Software: April–July 2023; Lead Developer: August 2021–April 2023.

- Led approximately five developers delivering **10+ custom applications** from scratch, working directly with clients to define requirements, scope, and technical direction.
- Built Enrolr for BGC Saskatoon, automating childcare registration and invoicing and eliminating approximately **one week of manual reconciliation each month**.
- Built Caddie, an offline-first React Native app used by approximately **50–100 crop adjusters** across Saskatchewan, Alberta, and Manitoba, with local SQLite storage and explicit data synchronization.
- Designed **QR-based data exchange** for adjusters collaborating without network connectivity; co-developed crop insurance payout calculations with a fellow engineer and AgDirect stakeholders.

EXPERIENCE — CONTINUED

SafetyTek Software

July 2018 – August 2021

Lead Developer / Full Stack Engineer / Machine Learning Engineer

Lead Developer: January–August 2021; previously Full Stack, Backend, and Machine Learning Engineer.

- Built most of the TypeScript/Node.js backend for the in-house V2 rebuild, using Koa and Neo4j with extensive unit and integration testing.
- Built both React Native mobile applications from scratch and contributed to the React/Next.js web application.
- Progressed from machine learning engineer to technical lead and primary developer, guiding technical delivery for approximately five engineers.
- Built a chatbot for completing construction safety forms by text, using intent classification and named entity recognition with TensorFlow, Keras, Rasa, and spaCy.

SELECTED PROJECTS

SaaSQLite

saasqlite.com

Built and deployed an independent SQLite hosting product with public documentation: C query executors, a Unix-socket binary protocol, an authenticated HTTP gateway, a TypeScript SDK, and a Next.js dashboard.

Perfect Dungeon

perfect-dungeon.com

Built a cooperative dungeon speedrunning game with a server-authoritative TypeScript simulation, seeded generation, and deterministic replay tests. Developed a Python/Pillow sprite pipeline with reusable rigs, interchangeable equipment, and automated visual validation.

GGUF Tensor Overrider

GitHub

Built a tool that automates GPU/CPU tensor placement for llama.cpp using GGUF model metadata, tensor priorities, and estimated KV-cache requirements.

Polar Bear Classification

GitHub

Developed and compared machine learning classifiers to predict polar bear management zones from isotopic measurements, using Python, scikit-learn, and cross-validation to support wildlife research.

ADDITIONAL EXPERIENCE

Trainer.ai — Co-Founder | January 2022 – September 2025

Accelerators Group — VP of Technology | January 2020 – April 2023

ZellenTech Software — Co-Founder | July 2017 – January 2019

EDUCATION

B.Sc. Computer Science, Mathematics minor — University of Saskatchewan, 2018