

JAY TRANBERG
Full-Stack Software Engineer
(Frontend Engineering + Backend APIs)

React • TypeScript • JavaScript • Node.js • MongoDB • Cloud (Render)

Canada | Remote

Portfolio: <https://appintelligence.ca>

SUMMARY

Full-stack software engineer with hands-on production experience building, deploying, and maintaining modern web applications. Strong focus on React frontends, Node.js backends, and shipping real products end-to-end. Comfortable owning features from UI through backend logic, data modeling, and deployment.

FRONTEND ENGINEERING

- Built responsive, component-driven web applications using React and TypeScript
 - Implemented clean UI architecture with hooks, reusable components, and predictable state patterns
 - Integrated REST APIs and handled async data flows, loading states, and errors
 - Designed dashboards, landing pages, and interactive product interfaces
 - Focused on performance, accessibility, and modern UX best practices
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BACKEND ENGINEERING

- Designed and implemented REST APIs using Node.js and Express
- Modeled and queried application data using MongoDB
- Implemented authentication, validation, and structured error handling

- Deployed and maintained backend services on Render
- Managed environment configuration and production deployments

SELECTED PROJECTS

Covercraft — Full-Stack Creative Platform

AI-assisted music and creative tooling web application

- Built a full-stack React + Node.js application with modular feature architecture
- Implemented lyrics generation, prediction tools, and dynamic UI components
- Deployed production frontend and backend with live traffic
- Metrics:
 - 1,000+ generated sessions
 - Multiple AI-powered tools in active use
 - End-to-end ownership from UI to deployment

Color Mixer Pro — SaaS Utility Web App

Subscription-based web application for visual color workflows

- Built React frontend with structured UI and real-time interactions
- Implemented backend logic and user access control
- Integrated Stripe for subscriptions and tiered access
- Metrics:
 - Live SaaS deployment
 - Paying users onboarded
 - Production billing and access control in place

Dr. Epidermis / SkinScan — AI-Powered Health App

Image-based skin condition screening application

- Built full-stack system combining frontend UI with backend ML inference services
- Integrated image upload, preprocessing, and prediction workflows

- Deployed backend services and managed production environment
- Metrics:
 - Thousands of predictions processed during testing and demos
 - Multi-model inference pipeline in production
 - End-to-end feature ownership

Project Snowman — IoT-Connected Data Platform

Telemetry and data visualization platform for real-world sensor systems

- Built a React-based dashboard to visualize live and historical sensor data
- Implemented backend APIs for data ingestion, storage, and polling workflows
- Integrated hardware telemetry with cloud services and frontend visualization
- Metrics:
 - Real-time sensor data ingestion and monitoring
 - Multi-sensor data streams processed and displayed
 - End-to-end system spanning hardware, backend, and frontend

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PROFESSIONAL EXPERIENCE

Founder / Full-Stack Engineer — App Intelligence

2023 – Present

- Designed and shipped multiple production web applications end-to-end
- Owned frontend, backend, deployment, and iteration cycles
- Built real products with live users and production infrastructure
- Balanced product design, engineering execution, and real-world constraints

Software Developer — Contract / Independent

2021 – 2025

- Built and maintained web application features for client and internal projects
- Worked across frontend and backend codebases

- Contributed to production deployments and ongoing improvements

EDUCATION & TRAINING

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- Software Development Bootcamps — Full-Stack Web Development and language-specific training
 - Continuous professional development across React, Node.js, and cloud tooling
 - College-level coursework in technology and applied systems

ADDITIONAL LANGUAGES & FRAMEWORKS

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- Python (ML pipelines, inference services, automation)
 - Solidity (smart contracts, Web3 application logic)
 - React Native / Expo (mobile application development)
 - Stripe APIs (subscriptions, billing, webhooks)
 - REST API integration and third-party services
 - Git, CI/CD workflows, and cloud deployment practices
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