

Nathan Luckock

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WORK EXPERIENCE

API Architecture Design | Transpara

Remote

Software Architect & System Designer | Miro

Jun 2025 - Present

- **Designed and implemented scalable API architectures** for polling and subscription based systems, standardizing interfaces to support high-volume throughput with a sustained 95%+ completion rate under load
- **Developed intelligent data flow controls** including automated registration and deregistration of metadata, robust MQTT publishing with timestamp validation, and resilient error handling with fallback logic for API failures
- **Authored detailed documentation and flow diagrams** covering integration logic, data paths, and error recovery, ensuring maintainability and enabling rapid onboarding for new developers and cross-functional teams

Inmation Data Interface API | Transpara

Remote

Software Architect & Backend Developer | Python

Jul 2025 - Jul 2025

- **Architected and developed** a high-performance real-time streaming system for Inmation, handling 500,000+ data points per hour with sub-500ms latency; implemented WebSocket subscriptions and MQTT integration to support 50+ connections and 250,000+ messages/hour with 99% uptime and no data loss
- **Optimized API performance** with a Valkey caching layer and configurable TTL, reducing API calls by 60% and cutting response times from 2–5 seconds to ~300ms through strategic data flow improvements

ODBC Interface API | Transpara

Remote

Software Architect & Backend Developer | Python

Jun 2025 - Jun 2025

- **Designed and built a high-performance ODBC interface** supporting SQL Server, Oracle, PostgreSQL, and more, with built-in time series analysis, efficiently handling 15,000+ daily requests at a 99.9% success rate
- **Improved query performance** using Valkey caching with a 90% hit rate, cutting response times from 1-5 seconds to ~300ms, reducing database load by 70%, and ensuring faster, more reliable data delivery under high request volume
- **Developed scalable data retrieval endpoints** for current, historical, and trend data using custom query templates and efficient pagination, supported by a dual polling system that auto-discovers new metadata and continuously refreshes cached values to ensure accuracy, low latency, and high throughput across large datasets

LEADERSHIP EXPERIENCE

Project Owner, API Infrastructure | Transpara

Remote

Engineering Lead | Python, Docker, Linux

Feb 2025 - Present

- **Took full ownership** of critical API platforms, overseeing architecture, end-to-end development, code quality, performance optimization, and technical delivery across multiple real-time and historical data systems
- **Led cross-functional collaboration** between backend, QA, infrastructure, and product teams to ensure long-term scalability, system reliability, technical alignment, and customer-focused outcomes
- **Drove technical direction** by establishing coding and architectural standards, mentoring junior software developers, and fostering maintainability, engineering consistency, and sustainable team growth

Demo Data Rebuild Lead | Transpara

Remote

KPI & Node Architecture Coordinator

Nov 2024 - Dec 2025

- **Led full reconstruction** of internal demo environments after emergency data loss, rebuilding KPI definitions, node hierarchies, lookup interfaces, and metadata across legacy systems; validated 12+ complex demo pipelines to ensure functional accuracy and alignment with product standards
- **Coordinated globally under pressure**, including 2 AM syncs with Portugal-based developers, to deliver fully functional demo sites used across development and engineering teams within tight deadlines

EDUCATION

Brigham Young University Idaho

Rexburg, Idaho

Bachelor of Applied Science in Computer Science | 4.0 GPA

Graduation Date: Jul 2026