Jason Amador

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Staff Software Engineer with 7 years building distributed systems for real-time data processing and enterprise platforms. Deep expertise in time-series data pipelines, fault-tolerant architecture, and complex system migrations with a proven track record of maintaining production systems at scale.

Professional Experience

Cleartrace

Staff Software Engineer *Sept 2024 – Present*
- Transform ambiguous product requirements into actionable technical roadmaps for enterprise renewable energy certificate (REC) management systems
- Led API v2 redesign introducing modern OpenAPI standards and supplier asset management, establishing foundational architecture for enterprise-scale certificate tracking
- Partner with product teams to identify and derisk technical implementation challenges early in feature planning cycle
- Establish engineering standards and mentor team through code reviews, pair programming, and architectural guidance

Senior Software Engineer *Jan 2021 – Aug 2024*

- Architected real-time load matching engine processing energy market data across distributed Lambda functions, handling time-critical trading algorithms through iterative development and production hardening
- Built comprehensive analytics platform (Dashboard v2) from ground up using TypeScript/Vue architecture, delivering customer-facing real-time energy data visualization
- Led full application re-architecture, migrating from MongoDB to PostgreSQL/Rails stack, enabling enterprise multi-tenancy while reducing infrastructure complexity and improving query performance
- Designed and executed data pipeline migration from distributed Lambda architecture to unified DBT/Snowflake system, consolidating time-series processing while maintaining zero downtime
- Integrated enterprise SSO (Frontegg), replacing custom OAuth implementation to enable multi-tenant security compliance

Software Engineer *Sept 2018 – Jan 2021*

- Built fault-tolerant time-series ingestion API processing sub-minute readings from 500+ renewable energy assets, maintaining 99.9% uptime across 5+ years of continuous operation
- Established core platform APIs for energy data processing, customer management, and real-time market integration
- Designed distributed processing pipeline using AWS Lambda and SQS for time-critical energy market data across multiple ISO regions, handling data consistency and temporal aggregation challenges

- Built resilient full-stack solutions across microservices architecture, adapting to dynamic requirements in real-time energy trading environments

Technical Skills

- **Languages**: JavaScript/TypeScript (Node.js), Ruby, Elixir
- **Frameworks**: Express.js, Nest.js, Vue.js, Ruby on Rails, Phoenix
- **Databases**: PostgreSQL, MongoDB, Snowflake
- **Data Processing**: Time-series aggregation, batch pipeline architecture, temporal data modeling, gap detection and deduplication
- **Distributed Systems**: AWS Lambda, SQS, ECS, load balancing, fault tolerance patterns
- **Specialties**: Real-time data processing, schema design, system migrations

Recent Projects

- **Real-time Collaborative Canvas**: Built from scratch using Elixir/OTP with custom WebSocket implementation, binary protocol, and 60fps message batching. Handles 70K+ messages/second in local load tests.
- **Distributed Load Testing Platform**: Building comprehensive performance testing infrastructure for real-time systems with multi-machine coordination and telemetry collection

Key Strengths

- **Systems Architecture**: Design and implement resilient distributed systems that gracefully handle failure scenarios and scale requirements
- **Data Pipeline Expertise**: Deep experience with time-series data challenges including timezone normalization, mixed granularity aggregation, and consistency patterns
- **Migration Leadership**: Successfully led multiple large-scale system migrations with zero downtime and minimal business disruption
- **Production Excellence**: Consistent track record of building maintainable systems with strong operational characteristics
- **Technical Mentorship**: Guide engineering teams through complex architectural decisions and establish sustainable development practice

Education

Immersive Web Development Bootcamp
Galvanize – Austin, TX (2017-2018)