

ALDRIN RYAN CUPINO LUPISAN

Software Engineer

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Product-focused software engineer with hands-on experience building and operating cloud-native backend systems used by real users. Designed RESTful APIs, multi-tenant data models, and serverless services using Python and AWS, supporting user-facing workflows in production. Strong bias toward end-to-end ownership, system observability, and practical tradeoffs around performance, cost, and maintainability.

PROFESSIONAL & TECHNICAL SKILLS

- Over 1 year of backend systems development, cloud infrastructure automation, and production API design experience.
- Proven end-to-end ownership of backend features from design through deployment and observability.
- Over 6 months of production cloud infrastructure experience across AWS Lambda, API Gateway, DynamoDB, and CloudWatch.
- Developed scalable data architectures, optimized GSIs for query performance, and implemented structured logging for production debugging.
- Formal training and hands-on experience with AWS Services: Lambda, API Gateway, DynamoDB, S3, CloudWatch, IAM, and AWS SAM.
- Developed RESTful API standards, domain modeling strategies, and data isolation patterns for multi-tenant systems.
- Over 5 years of production operations management, process optimization, and data-driven performance analysis in manufacturing environments.
- Experience with Python, JavaScript/TypeScript, React, Git/GitHub, Docker, and Postman API testing.
- Experience with Django, Flask, PostgreSQL, and structured logging/observability patterns.

TECHNICAL PROJECTS

Flow – Powerlifting Tracking App 2025 - 2026

- Architected and developed backend infrastructure for cloud-native application using AWS Lambda, API Gateway, and DynamoDB, supporting real user workflows.
- Designed multi-tenant data models and optimized Global Secondary Indexes to ensure clean data isolation and predictable query performance.
- Developed mobile-first React application with TypeScript, implementing optimistic UI updates, real-time workout timing, and lazy-loaded data fetching to minimize API calls and improve user experience on low-bandwidth connections.
- Built role-based access control system using AWS Cognito with custom post-authentication triggers, enabling coach-athlete relationships and secure multi-user data access patterns across DynamoDB tables.
- Implemented structured logging, request tracing, and API testing workflows using CloudWatch and Postman to diagnose production issues and improve system stability.

PROFESSIONAL EXPERIENCE

Closed Loop Plastics

Long Beach, CA

Co-Founder & Co-CEO

June 2017 - December 2023

- Analyzed production throughput, defect rates, and process variability, identifying operational bottlenecks and redesigning workflows that increased overall throughput by 40%.
- Developed standardized operating procedures and performance tracking, reducing process errors, improving consistency, and shortening onboarding time for new team members.
- Led end-to-end operations for early-stage manufacturing startup from initial production setup through scale-up, managing vendor relationships, quality control systems, and process documentation.

EDUCATION

AWS Cloud Institute | Cloud Application Developer Program

April 2024 - April 2025

University of California, Irvine | B.S. Environmental Engineering

June 2017

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

AWS Certified Developer – Associate

AWS Certified Cloud Practitioner

AWS Cloud Institute – Cloud Application Developer