

DANIEL OLSON

BACKEND & DATA PLATFORM ENGINEER

U.S. Citizen | Based in Puebla, Mexico | International Remote | Open to Relocation
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SUMMARY

Backend and data platform engineer with hands-on ownership of production systems spanning Python APIs, PostgreSQL, distributed ETL, cloud infrastructure, external integrations, and internal business applications. Built and operates Junglr's Amazon advertising platform, processing millions of rows across more than 50 API/reporting workflows and supporting daily operations for 31 client accounts. Author of the Buelon distributed orchestration system and custom workflow language published on PyPI.

TECHNICAL SKILLS

Languages: Python, SQL, Go, JavaScript, TypeScript

Backend: FastAPI, Flask, REST APIs, WebSockets, OAuth, asyncio, distributed workers

Data: PostgreSQL, BigQuery, SQLite, Firestore, Redis, analytical SQL, ETL/ELT

Cloud & Operations: Google Cloud Run, Cloud Build, Google Batch, AWS integrations, Docker, Linux, systemd, Hetzner

Integrations: Amazon Ads API, Selling Partner API, Amazon Marketing Cloud, SQS, Zoho, Google APIs

EXPERIENCE

JUNGLR LLC — Remote

VP of Engineering | Hands-on Backend & Data Platform Lead (Independent Contractor) | Dec 2022–Present

- Built Junglr's first React/Flask automation product, reducing a document-to-report workflow from approximately one working day to about ten minutes.
- Designed, deployed, and operates a production Amazon advertising platform spanning Python services, PostgreSQL, distributed workers, cloud infrastructure, internal applications, and account-management automation.
- Implemented low-memory ETL workflows that process millions of Amazon advertising rows across more than 50 API/reporting workflows, using PostgreSQL and the independently authored Buelon orchestration system.
- Implemented Amazon Ads and Selling Partner API OAuth, token and account access, customer authorization links, and AMC functionality; completed the application process required to obtain SP-API access.
- Built bid, budget, placement, and state-change automation around editable Google Sheets, preserving human review while enabling bulk API operations; users report saving approximately 1–2 hours per account on twice-weekly workflows.
- Designed a Chrome extension and Zoho OAuth handoff that provides account-specific CRM tools and serves as the controlled authentication gateway to Junglr's Firebase web application.
- Developed reports, KPI alarms, keyword tools, executive account views, dashboards, fallback bulk-update workflows, and administration for users, accounts, schedules, database health, and recovery.
- Integrated Claude, Gemini, Google agent tooling, WebSockets, Cloud Run, and company data into account-analysis and report-generation workflows; deploys and operates a private AIOS with PostgreSQL, web, voice, and messaging interfaces.
- Partners directly with the CEO and account-management team to identify manual workflows, translate operational requirements, deliver automation, and adapt tools to employee behavior.

CITROFRUT USA

Front Desk Clerk / Operations | Mar 2022–Dec 2022

- Supported inventory, shipment-request, client, and coworker workflows using Microsoft Excel and Dynamics 365.
- Used Python for limited workflow support before moving into professional software engineering.

SELECTED PUBLIC SOFTWARE

BUELON — Distributed Python/SQL Workflow Orchestration

PyPI: pypi.org/project/buelon | GitHub: github.com/daniel-olson-code/buelon

- Designed and published a Python orchestration system and custom data-manipulation language that compiles Python, PostgreSQL, and SQLite pipeline definitions into parent/child execution DAGs.
- Built scope- and priority-aware hub/worker scheduling, dependency release, retries and state transitions, disconnected-worker recovery, and bounded asynchronous execution.
- Engineered framed TCP, WebSocket, and bidirectional socket transports plus pluggable result storage using disk/memory caching, PostgreSQL, Redis, and ZooKeeper.
- Maintains the MIT-licensed package and CLI tooling on PyPI for Python 3.10–3.12; public source contains approximately 13,900 physical Python lines across 106 Daniel-authored commits.

CRONEVENTS — Persistent Python Scheduling

PyPI: pypi.org/project/cronevents | GitHub: github.com/daniel-olson-code/cronevents

- Published a Python package for interval, weekday, time-of-day, one-shot, OR-composed, and timezone-aware schedules, with subprocess execution, SQLite/PostgreSQL persistence, logs, heartbeats, and CLI inspection.
- Designed configurable event, trigger, and logging backends with queue-backed ingestion, batched database writes, and systemd service scaffolding.

BISOCKET & CLOUD_SOCKET — Python/WebSocket Communication Libraries

- Built bidirectional request/response transports with request correlation, concurrent and asynchronous execution, timeouts, reconnection behavior, and lifecycle handling.
- Implemented cross-language Python/JavaScript communication and authenticated-encryption experiments for responsive cloud-hosted APIs.

LAST FRONTIERS — Serverless Website, CMS & Email Platform

- Built a React/Firebase CMS with drafts, publishing, versioning, images, SEO, and administrative controls.
- Implemented newsletters using Firebase Functions, a containerized Python Cloud Run Job, Amazon SES, delivery/bounce/complaint processing, suppression, and failed-recipient retries.

PROFESSIONAL DEVELOPMENT & LANGUAGES

AI Automation and AIOS Implementation — Employer-funded professional development, Liam Ottley / Morningside AI

Languages: English (native); Spanish (professional working proficiency)