Daniel O'Brien Senior Full-Stack Developer

San Francisco, CA · daniel.obrien@gmail.com · +1 415-555-0188 · linkedin.com/in/danielobrien

PROFILE SUMMARY

- **Senior Full-Stack Developer** with **7 years** on **scientific and fintech SaaS**, now owning **sample registration and inventory features** at **Benchling**, after 3 years on equity management products at Carta.
- Works in languages (**Python**, **TypeScript**, SQL), front end (**React**, TanStack Query), back end (**Flask**, **Django**, REST), data (**PostgreSQL**, SQLAlchemy, Redis) and cloud (**AWS**, Docker).
- Knows **large-table migrations**, **row-level permissions** and **bulk data entry screens** well, and writes a short design doc mapping each change across the React view, the API and the schema before building it.
- Works with **product managers**, **designers**, **customer scientists** and the **platform team**, and joins calls with biotech lab managers whenever a feature changes how their teams log samples.
- Runs the inventory squad's **design review**, mentors **2 mid-level engineers** through their first schema changes, and keeps the team's **migration runbook** up to date.

TECHNICAL SKILLS

Languages:	Python, TypeScript, JavaScript, SQL
Front-End Frameworks & UI:	React, TanStack Query, Redux Toolkit, Storybook
Back-End Frameworks & APIs:	Flask, Django, Django REST Framework, REST, GraphQL, Celery
Databases & ORMs:	PostgreSQL, SQLAlchemy, Alembic, Redis, Elasticsearch
Auth, Payments & Integrations:	OAuth 2.0, SAML SSO, role-based access control, signed webhooks, Stripe
Cloud & Hosting:	AWS (ECS, RDS, S3, SQS), Docker, Terraform
Testing, CI & Monitoring:	pytest, Jest, Playwright, Cypress, CircleCI, Datadog, Sentry

EDUCATION

University of Wisconsin-Madison — **B.S. in Computer Sciences** — Madison, WI · Sep 2015 to May 2019

WORK EXPERIENCE

Benchling — **Senior Software Engineer, Full Stack** — San Francisco, CA · May 2022 to Present

- Owned bulk sample registration from design doc to launch, with spreadsheet import, server-side validation and a review step, cutting the time a lab needs to register a 96-well plate from 40 minutes to **6 minutes**.
- Redesigned the **PostgreSQL** schema for sample lineage as a parent-child table with recursive queries, then moved **210M rows** with Alembic batches and dual writes, with no customer downtime.
- Moved inventory permissions from UI checks to **row-level rules** enforced in the API, with an audit trail for regulated customers, closing **4 findings** from a pharma customer's vendor audit.
- Cut p95 load time for freezer box views holding **10,000+ samples** from 4.6 s to **1.1 s** by virtualizing the React grid, removing N+1 queries and caching box layouts in Redis.
- Built **signed webhooks** for inventory events with retries and a replay tool, so **40+ customers** could sync sample moves into their own LIMS and instrument software.

Carta — **Software Engineer** — San Francisco, CA · Jul 2019 to Apr 2022

- Built **Django REST Framework** endpoints for cap table exports with pagination, permission checks and background generation in **Celery**, bringing the largest exports under **30 seconds**.
- Rebuilt the option exercise flow in **React** and **TypeScript** with step-by-step validation and saved drafts, cutting support tickets about failed exercises by **45%**.
- Added **pytest** integration tests and **Cypress** runs for the exercise flow to CI and set up Sentry alerts per release, catching **11 regressions** before they reached employees.