ANDREW POGGIONE

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Experience

Senior Backend Software Engineer | First Resonance
Los Angeles, CA | 2022-01 - Present

- Heavily contributed to our main backend monorepo, consistently ranking highest in key GitHub metrics (commits, code changes, PRs, reviews) across the team
- Promoted to backend team lead and later—after an org restructure—led our most vital and trafficked domain team while personally shipping retention-critical features such as "mBOM Versions", per-step "Installation Requirements", "ION Actions" (rules engine), and "Instant Inventory History".
- Served numerous on-call rotations: unblocked customers, debugged production issues, coordinated customer communications, deployed targeted hotfixes, wrote postmortems, and drove post-incident resiliency work.
- Spearheaded internal tooling to accelerate developer velocity: adopted Ruff early, fixed and centralized local dev scripts, and built an operator-focused CLI for safe one-off analysis and jobs (e.g., running SQL across multiple DBs/schemas, generating DAG visualizations for architecture docs, and managing deploy schedules).
- Built a history service that transforms 10k+ audit rows/sec into context-rich, denormalized, customer-facing events—enabling near-instant visibility into the full history of any inventory item (including a 300M+ row backfill).
- Reduced local test iteration time by 30x by avoiding unnecessary test DB rebuilds, enforcing a rollback-based testing pattern, and implementing a custom bulk inserter (many times faster than the ORM)—later reused in production to speed up inserting many large trees of data.
- Oversaw and contributed to a fork of alembic_utils, ensuring consistent management of our SQL triggers, stored procedures, functions, and views.
- Significantly improved observability across the stack—especially for the API and database migrations—by recording key metrics, building dashboards, defining SLIs/SLO-style calculations, and crafting monitors (Elasticsearch/Sentry early; later Datadog).
- Wrote and reviewed complex database migrations while learning and evangelizing non-blocking, backward-compatible practices—executing large backfills and schema changes without production disruption.
- Contributed heavily to organizing and maintaining our Notion knowledge base as a reliable source of truth for engineering documentation.
- Interviewed, onboarded, and mentored engineers across senior, junior, and intern roles—boosting team productivity and ensuring rapid knowledge transfer.

Full Stack Developer | Spy Pond Partners LLC
Arlington, MA | 2019-08 - 2021-12

- Constructed "portal" websites to provide transportation agencies with curated collections of relevant events, guides, reports, tools, web apps, and training resources
- Developed web apps to assist transportation agencies in the self-assessment of their own practice—in relation to other agencies and the goals and expectations set by federal transportation agencies (i.e. FHWA and AASHTO)
- Hosted sites and applications on AWS, Heroku, and DreamHost; on AWS, managed EC2, RDS, and Elastic Beanstalk, configured IAM/security groups, set up CodePipelines, and managed S3 buckets.
- Scraped, cleaned, analyzed, and produced visualizations for transportation project data to shed light on the interconnectedness of transportation agencies and their research projects
- Built Google Apps Script (JavaScript) automations to eliminate manual workflows (e.g., mail-merging Google Sheets data into Google Docs).

Education

Occidental College
Los Angeles, CA | 2019-05

- Double majored in Mathematics and Economics
- **Mathematics:** Statistical Data Analysis, Real Analysis, Ordinary Differential Equations, Probability, Advanced Linear Algebra Applications, Cryptology, Operations Research. **Economics:** Microeconomic and Macroeconomic Theory, Applied Econometrics, Industrial Organization, Environmental Economics, Accounting and Financial Analysis. **Computer Science:** Data Structures, Databases

Skills

Python (Skilled): Data analysis, Web apps

SQL (Especially Postgres) (Skilled): CTEs, Triggers, Functions, Stored Procedures, Locks, Indexes, Handling Concurrency, Query Optimization

GraphQL (Skilled): Graphene, Dataloaders, Relay

Telemetry/Monitoring and Alerting (Skilled): Profiling, Logging, Traces, Reading flamegraphs, Datadog, Elasticsearch

JavaScript/TypeScript (Skilled): React, Next.js, jQuery, D3

DevOps (Proficient): Kubernetes, GitHub Actions, Terraform, ArgoCD, Helm, Vault, Autoscaling, Docker, Lots of AWS

Spreadsheets (Skilled): Formulas (lookups, filters, etc.), Google Apps Script