

Jonathan Seller

Software Developer

jseller27@gmail.com

[linkedin.com/in/jseller](https://www.linkedin.com/in/jseller)

Skills

Professional full-stack software developer with experience in E-commerce, Sales Automation, Supply Chain Logistics, Requirements Engineering, Marketing Analytics, Public Transportation, Business Intelligence, and Financial Services.

jseller.github.io (blog)
<http://github.com/jseller>

Applications and Data

Python • Java • C++ • SQL

Postgres • Snowflake • Redis • Bigquery • ElasticSearch

Devops and Platform

GCP • AWS • Azure • Jenkins CI • Github Actions

Product Development

JTBD • User Stories • BDD/TDD • Spec Driven Development

Experience

Principal Software Engineer [ZoomInfo](#) (January 2025-Present)

Building GraphRag systems for ingestion and retrieval. Context retrieval with knowledge graph querying and traversal, Semantic queries on embeddings

- Python FastAPI with Postgres and BigQuery
- Ontology development for knowledge graph extraction by LLMs
- Vector embeddings using pgvector, and bigquery
- Data Science ELT pipeline using Airflow/DataFlow
- Architecture direction for Maintainability, Portability and Observability.
- LLM Token usage for COGS, evals for graph extraction from content

Senior Software Developer / Team Lead [Coveo](#) (July 2023- Dec 2024)

Defining technical direction for a cross-functional and multidisciplinary team focused on e-commerce storefront performance metrics and analytics

- Java/Spring API with Snowflake, Redis, and Coveo platform
- Requirements Development using BDD and RFCs for dependencies
- Data Science ELT pipeline using Prefect/ Snowflake

- CI/CD with github, automated functional BDD (karate) and load (gatling) Testing
- AWS, Spinnaker deployments, Grafana and Honeycomb observability

Principal Technical Architect [Tealbook \(May 2022-June 2023\)](#)

Led design and development of a new Supplier Data Platform

- Python/Flask API with distributed data
- Product Architecture for Supplier Data APIs and Pipelines, Requirements Development using BDD
- Data Science ELT pipeline using Airflow/GCP Composer with Cloud SQL Postgres dbs
- CI/CD with github, Docker with automated TDD, functional (karate) and load (locust) Testing
- GCP BigQuery, Cloud Functions, PubSub event driven architecture

Senior Software Developer [Nylas \(Feb 2021-May 2022\)](#)

API development for rapidly scaling Email, Calendar and Scheduling product

- Python 2.7 and 3.8 Development using BDD and TDD techniques
- Product Architecture for Scheduling API
- Observability with Sentry, Honeycomb, Kibana. CI/CD with github, Docker, Harness

Software Engineer [QRA \(March 2018 - March 2020\)](#)

Server development for distributed teams using MS office requirements analysis

- Java OAuth2 authorization server with Spring, Postgres, Couchbase
- requirements specifications with EARS and BDD
- C# Windows VSTO development and AngularJS development for Office365 clients
- NLP development using apache open nlp and Spacy.io
- Jenkins, Release Management for Azure and on-premise install

Lead Developer [Swept \(January 2017 - March 2018\)](#)

Hired and mentored a team of Developers and QA and scaled architecture that decreased AWS cost by 70% while client base increased by 150%.

- Scaling a HTML/JQuery/PHP Laravel app from 10-25k users
- MySql, Redis, AWS Aurora
- Code management, code review and Release Management for AWS
- Continuous Integration with automated testing (Gherkin/pytest-bdd)
- Completed due diligence for VC investment of ~2 Million CAD

VP, Product and Technology [InNetwork \(March 2014 – July 2016\)](#)

First technical employee. Built influencer marketing directory. Grew a team of engineers and directed product strategy using Roadmapping, Personas, User Stories and Acceptance Criteria.
Sold to gShift March 2016.

- Python Django/Celery with JQuery/Bootstrap
- Postgres, RabbitMQ, Redis, ElasticSearch
- CI/CD with Jenkins. Monit, Datadog on AWS and Linode

Lead Member of the Technical Staff [Salesforce \(radian6\)](#) (October 2010 – March 2014)

Senior Developer/Team Lead for radian6 dashboards and salesforce marketing cloud social studio applications.

- SQL/NoSql databases, queueing (MQ), caching (Redis, memcached) MongoDB, Postgres, Redis
- JQuery/SalesforceUI Java (Struts and Dropwizard) web applications
- TDD (JUnit), BDD (Selenium with jenkins) CI/CD with Jenkins

System Architect [Vizible](#) (Sept 2005 - Jan 2010)

Lead Developer for 3D content browsing platform.

- Event-based 3D User Interface using JavaScript with XPConnect/Spidermonkey engine
- C++, STL, Boost, Mozilla/XPCOM and Ogre 3D engine
- Multi-threaded Networking library that reduced response times by 4000%

System Architect [Trapeze \(Constellation Software\)](#) (June 2001 - May 2005)

Designed and implemented a scalable framework for delivering transit content to Internet devices.

- XSLT for client devices; XHTML with XForms, XFrame and RelaxNG validation
- C++ Framework on Trapeze Core Framework (WIN32 platform)

System Architect [724 Solutions](#) (August 1999 - June 2001)

Mobile clients for banking and brokerage applications.

- UI for small devices: HDML, WML, and HTML early specifications. WAP/WML browsers and gateways
- development of XSLT processor, C++ server

Education

Mathematics with Computer Science

University of PEI

Honorable Mention in APICS/IEEE Computer programming competition