Andrew G. Grossman, MSc, MBA

✉ andrewgrossman.developer@gmail.com ⚙ AndrewGrossman

📞 (410) 645-0462 in andrew-g-grossman

📍 Baltimore, Maryland, United States

Seasoned developer and engineering lead with 15+ years of experience, including a background in commercial data collection and processing. Strong background in PostgreSQL, Python, and Django, with experience in AWS, ETL, optimization, and software development management.

🏛 Work Experience

Cabinet Health

Staff Backend Engineer   May 2024 – Present

Backend engineer for Cabinet's online pharmacy offering. Implemented software features in a Python/Django-based system supporting the customer account portal, internal business management systems, and integrations with pharmacy partners.

- ▶ Designed and optimized API endpoints to handle 10M+ provider and pharmacy records for prescription acquisition, reducing refill response times by 30%. Cleaned underlying third-party data using Polars.
- ▶ Implemented an automated notification system to send timely SMS and email alerts, increasing refill rates by 20% and optimizing operational workload by 15%.
- ▶ Spearheaded data analytics in BI tooling (Metabase), delivering actionable insights to senior leadership for strategic decision-making.

Songtrust / Downtown Music Publishing

Director of Software Engineering   June 2023 – March 2024

Engineering lead for the Songtrust product team. Responsible for the development and maintenance of the Songtrust.com web application with 30k+ active users, as well as internal facing enterprise tools. Managed a team of 6 engineers.

- ▶ Guided the technical implementation of key application features, via team planning, ticketing, and code reviews.
- ▶ Functioned as departmental service owner for Postgres. Managed AWS RDS Postgres instances, including right-sizing, cost management, major version upgrades, and parameter configuration. Mentored new departmental DBA.
- ▶ Completed initiative to verify user identities, reactivating stalled business partnership impacting $2M of client earnings.
- ▶ Implemented SLA for incoming support requests, ensuring 95% of requests are responded to within 24 hours. Cleared 9 month request backlog in 3 months.
- ▶ Drove completion of a dozen features previously stalled between code deployment and product acceptance QA activities.
- ▶ Applied more comprehensive monitoring and alerting, identifying ~75% of user-facing issues before they were reported.

Engineering Manager
December 2019 – June 2023

Team lead / back-end developer for a greenfield application managing music industry intellectual properties for the purpose of royalty collection. Managed and mentored 9 engineers across multiple development teams.

▶ Architected data model, including support for robust auditability.
▶ Set up a flexible Django/DRF environment with custom primitives for advanced Postgres feature usage.
▶ Designed and implemented a custom ETL pipeline using Python and SQL for data ingress from multiple systems, including MS SQL Server sourced data.
▶ Maintained application deployment environments (AWS EC2/RDS Postgres/S3).
▶ Involved in and executed on departmental leadership initiatives focused on reaching an enterprise-level of governance, stability, and process.
▶ Drove approach to reduce data record rejections from business partners by 95% versus the previous system.
▶ Managed and refined team agile processes and development workflows, including JIRA configurations.

Senior Software Engineer
June 2018 – December 2019

Full-stack developer on a consumer-facing PostgreSQL/Python/Django/Ubuntu/AWS-hosted consumer-facing application for facilitating songwriter royalties collection.

▶ Implemented a feature to allow users to share songwriters across accounts 3 months ahead of schedule.
▶ Optimized database queries and application performance.
▶ Implemented new front-end features in a legacy jQuery/Backbone environment.

Notes Frequencies, Inc.

Engineering Consultant
May 2024 – Present

Backend architect for Notes' financial management platform for musicians. Automated and exposed data retrieval activities to service Notes' client-facing app and internal tooling.

▶ Architected greenfield application based on Django/Django-Ninja/PostgreSQL/Celery/Docker/AWS.
▶ Automated processing and loading of financial statements using Pandas.
▶ Automated account registration and website/API data retrieval activities using Python and Selenium.

Bridgestone Commercial Solutions

Software Lead / Development Manager
2012 - 2018

Led a team of of 8 developers to build a commercial data collection product, that served as a key differentiator in the retread service package offering to hundreds of B2B customers. Product was built using a Django/Dojo/PostgreSQL/RHEL stack. At time of departure, the application had over 600 users and had collected over 3 million survey readings.

▶ Implemented data model providing for auditability and multi-faceted authorization controls.
▶ Architected and implemented application foundation using Django/Tastypie/Dojo frameworks.
▶ Engineered third-party data imports (ETL) from various formats into PostgreSQL database.
▶ Led end-to-end team management including task assignment, documentation, code reviews, cross-functional coordination with PM/QA teams, and personnel responsibilities including hiring and performance reviews.

Software Developer 2003 - 2012

Developed and administered Django-based commercial website for the tracking of national trucking fleet inventories. System consolidated data from over 30 Postgres-based systems into a single reporting database. Resulting website is now marketed directly to large trucking fleets including Waste Management, Ryder, and UPS, leading to increased sales of the company's core product. Product was built using a Django/YUI 2/PostgreSQL/RHEL stack. Worked on other software products as needed.

🎓 Education

Master of Business Administration 2014

University of Baltimore

Master of Science in Computer Science 2007

UMBC

▶ Completed research paper in algorithm development including simulation and statistical analysis entitled "Indirect Data Reporting in Wireless Sensor Networks with Multiple Mobile Nodes."

Bachelor of Science in Computer Science 2001

University of Maryland, College Park

⚒ Skills

Python

Django
Django Rest Framework
SQLAlchemy
Celery

PostgreSQL

SQL pl/pgsql
Query Optimization
ETL RDS
Data Modeling

AWS

RDS EC2 S3
Lambda

Software Development

JIRA CircleCI
Git GitHub 🥚
Datadog
REST API
Confluence

Engineering Management

People Management
People Development
Agile

Technical Potpourri

Microsoft SQL Server
Linux Docker
Javascript Excel
Visual Basic / VBA
Bash