Andrew G. Grossman, MSc, MBA

🪪 Personal Info

Seasoned developer and engineering lead with a background in commercial data collection and processing. I have a strong background in Python, Django, and PostgreSQL, with experience in AWS, ETL, optimization, and software development management.

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 AndrewGrossman

in andrew-grossman-13a3bb10

🏛 Work Experience

Songtrust / Downtown Music Publishing

Director of Software Engineering   July 2023 – April 2024

Engineering lead for the Songtrust product team. Responsible for the development and maintenance of the Songtrust.com Django-based 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 customer 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.
- Assisted in additional cost-cutting measures, including identifying $35K/year of since-realized savings in cloud costs.
- Ensured high morale and team stability, increasing overall productivity. Onboarded 3 new engineers.

Engineering Manager   January 2020 – June 2023

Team lead / back-end developer for a Django/React-based greenfield application managing music industry intellectual properties for the purpose of royalty collection.

- 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 Django, 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.
- Responsible for managing and mentoring 9 engineers on multiple development teams.

Senior Software Engineer

June 2018 – December 2019

Full-stack developer on a consumer-facing Python/Django/PostgreSQL/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.

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 initial Django/Tastypie (API)/Dojo-based patterns used as the base for the application.
- ▶ Implemented data model providing for auditability and multi-faceted authorization controls.
- ▶ Scripted imports (ETL) of third-party data from various formats into PostgreSQL database.
- ▶ Assigned tasks, provided task documentation, reviewed work, and consulted on work within the engineering team.
- ▶ Coordinated development activities with product manager, project manager, QA team, and target users.
- ▶ Performed managerial duties, including hiring, termination, and performance reviews.
- ▶ Managed developer and testing VM instances (KVM, VMWare).

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.

- ▶ Provided custom reporting and querying of a PostgreSQL database for data mining purposes.
- ▶ Implemented features in a C/Curses-based/Informix CISAM TUI application used for the management of tire retread shops.
- ▶ Developed CakePHP-based data reporting website for corporate usage.
- ▶ Developed Visual Basic 6 / Access based reporting application for use by over 100 commercial clients.

Stifel Nicolaus

Outside Software Consultant

2007 - 2018

Developed advanced Microsoft Excel applications w/VBA for stock selection and tracking.

🎓 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 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

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