

# Jonathan Lopez

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## WORK EXPERIENCE

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### Senior Software Development Engineer

March 2024 — Present

Mediaocean

*Remote*

- Pydantic model generation
- Flask uam endpoints
- Meticulously added type hints to legacy code for easier maintainability
- SQLAlchemy
- Weather based automation rules

### Platform Engineer

Feb 2022 — March 2024

Mediaocean

*Remote*

- Python launcher for local development
- vox bash script improvements
- Terraform updates
- kubernetes development namespaces
- Python AST parser for configuration
- CI/CD Improvements with github actions
- authz internal user authentication /mo
- upgrade services to Python 3.11
- Led TV offboarding to new repo

### Application Developer

Apr 2021 — Feb 2022

Gridunity

*Remote*

- Developed a proof-of-concept Python command line tool using Playwright, Typer-cli, and PyGit to facilitate the migration of code from one site to another in the absence of a version control system
- Developed a proof-of-concept Python library to update main site components using Pydantic and SQLAlchemy for an enjoyable developer experience through extensive use of type hinting
- Developed a proof-of-concept Python cli tool to generate JSON fields from dataclasses for quick through extensive use of type hinting
- Refactored many single-method Python rules to expressively named single purpose methods with typed docstrings to increase code readability and maintainability
- Reduced the time-to-build for local developer environments by streamlining the initial Bash script launching the Docker-compose environment

### Software Developer

Oct 2019 — March 2021

Inductive Health Informatics

*Atlanta, GA*

- Introduced and advocated for the use of build tools (Gradle) and code analyzers (MyPy, Black), creating a more streamlined approach for new project development
- Modernized legacy Bash and TCL scripts for the daily pull of new data to Python 3.7, increasing code maintainability and readability
- Introduced the use of Python to quickly develop various ETL job monitoring and email alerting scripts, increasing management's visibility into active ETL jobs
- Led migration of platform cron jobs to Apache Airflow, increasing visibility and reliability of all platform ETL jobs and retiring bespoke Python scripts
- Led migration of EC2-hosted data pipelines from AWS Linux to AWS Linux 2, writing Bash scripts to copy users, configure chroot directories, manage user permissions, and ensure SSH access for hundreds of existing data sites
- Developed greenfield Java ETL programs to process incoming data to SQL Server from new data sources with a test-driven approach

- Led server side troubleshooting efforts for sporadic system level issues for various teams ranging from updating user groups, tracing system log messages, and managing site SSH keys
- Led technical onboarding for 6 new team members and ensured they could claim ownership over various pieces of the platform

## EDUCATION

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### Georgia State University

*Bachelor's of Science, Computer Science*

Atlanta, GA

*Jan 2014 — May 2018*

### Georgia State University

*Bachelor's of Science, Biology*

Atlanta, GA

*Jan 2014 — May 2018*