# John R. Molina

johndev.io | github.com/rich-txt-editor | johnrichardmolina@gmail.com | linkedin.com/in/jrmolin90

### **Technical Skills**

Backend: Python, Flask, Diango, REST APIs, Microservices, Database Design, API Gateway

Frontend: React, JavaScript, Tailwind CSS, Responsive Design, Material UI

Data Engineering: ETL Pipeline Development, Data Warehousing, Modeling, and Integration, Distributed Systems

Database Systems: Oracle, MySQL, PostgreSQL, SQLite3, PL/SQL, Database Optimization **Programming & Tools**: Python, C/C++, PHP, Java, SQL, Markdown, Shell Scripting, Kafka Big Data & Cloud: AWS EC2, Docker, Data Lakes, Distributed Systems, Cloud Computing

Data Quality & Security: Data Validation & Governance, SSL/TLS, Access Control, Data Integrity

# Projects

johndev.io Ian. 2024 - Present

A personal blog and portfolio site

- Developed a full-stack web application using Django and React, hosted on an Ubuntu Droplet.
- Designed a scalable SQLite3 database alongside a REST API to support Create, Read, Update, and Delete (CRUD) operations for blog content.
- Developed a responsive front end using React and Tailwind CSS, ensuring an optimal user experience across devices.
- Implemented various security measures for production environments, including CAPTCHA, rate limiting, and SSL/TLS configurations to safeguard data integrity.
- Executed deployment through GitHub Continuous Integration/Continuous Deployment (CI/CD), utilizing Docker for containerization and Nginx for performance optimization

# Experience

**Development Assistant** Dec. 2017 - Aug. 2022 New York, NY

Columbia University, Office of Alumni & Development Data Management Group

- Architected and maintained complex ETL pipelines processing 1M+ constituent records between Oracle database, Athena fundraising platform, and Salesforce API, achieving 99.9% data delivery reliability
- Designed and implemented automated and manual data quality frameworks, increasing verified constituent records from 75% to 98% through systematic validation and cleansing processes
- Engineered scalable data integration solutions that supported \$5B annual fundraising targets and drove a 156% increase in alumni participation through optimized data flows
- Developed robust data verification workflows using LexisNexis and Initium, implementing automated matching algorithms that reduced manual review time by 70%
- Monitored and tested a real-time data synchronization system between Oracle, Athena, and Salesforce, reducing data latency from 24 hours to under 5 minutes
- Led technical implementation of data governance policies, reducing data inconsistencies by 85% and ensuring GDPR compliance

**Data Coordinator** Aug. 2017 - Dec. 2017

Columbia University, Office of Alumni & Development Data Management Group

New York, NY

- Developed automated ETL processes for Oracle database and Athena, processing 50,000+ daily records with 99.8% accuracy
- Implemented data quality monitoring system with automated alerts, reducing error detection time by 60%
- Created data validation framework using Python and SQL to enforce data integrity policies across multiple databases.
- Optimized database queries and indexing strategies, improving query performance by 40% across major workflows.

#### **Donor & Database Relations Associate**

Feb. 2016 - Aug. 2017

New York, NY

- Engineered data pipeline in Raiser's Edge database, implementing automated quality control measures that reduced data redundancy by 35%
- Developed an automated batch processing system for donation data, increasing processing efficiency by 75% and reducing manual errors.
- Created data integration workflows between multiple systems, ensuring seamless data flow for fundraising operations.

#### Education

Parkinson's Foundation

**Montclair State University** Bachelor of Science in Computer Science Montclair, NJ

**Hudson County Community College** Associate of Science in Computer Science Jersey City, NJ