

John Molina

Software Engineer

Contact

johnrichardmolina@gmail.com
(551) 404 - 7605
LinkedIn: jrmolin90
Github: jrmol

Skills

Algorithms & Optimization
AWS & Docker
Bash Scripting
Bootstrap
C/C++
Cybersecurity
Data Analysis
Data Engineering
Data Science & Visualization
Distributed Computing
Django
ETL
Excel
Full-Stack Web Development
Git & Github
HTML5 & CSS
Java
JavaScript & TypeScript
Linux Server & UNIX
Markdown
matplotlib
Node.js
Pandas
PHP
PyTorch
React
RESTful APIs
TensorFlow
Vue
Python
Seaborn
SQL/NoSQL
PL/SQL, MySQL, PostgreSQL
Scrum, Agile, Waterfall
VMWare
Virtualization

Education

Montclair State University
B.S., Computer Science
Montclair, NJ

Summary

Experienced Software Engineer specialized in AI/ML, adept at data analysis and visualization with Python libraries and full-stack web development in Django. Skilled in writing scalable code in Python, C/C++, and Java. Led data management and analytics projects at Columbia University, leveraging Oracle databases to drive a 20% annual increase in fundraising success.

Employment

AI Coding Trainer

DataAnnotation

Remote

02/24 – Current

- Performed AI and LLM training initiatives, focusing on enhancing Python data analysis, visualization, and coding accuracy across Java, Python, C++, C, and JavaScript.
- Conducted comprehensive domain research to refine AI model responses, significantly improving the model's performance for coding assistance and inquiries.
- Formulated and executed data-driven evaluation strategies for AI responses, markedly advancing evaluation precision and model reliability.
- Initiated and led code optimization projects to clean up AI-generated code across diverse programming languages, substantially improving code quality and operational efficiency.

Development Assistant, Data Management Team

Columbia University

New York, NY

12/17 - 08/22

- Managed Oracle database integrity by routinely performing data corrections with PL/SQL and Excel, securing data reliability essential for university-wide fundraising efforts.
- Contributed to the achievement of surpassing \$3 billion, \$4 billion, and \$5 billion fundraising targets through strategic data management practices that fostered deeper donor relationships and 106% more engaged alumni on average.
- Spearheaded accuracy-driven data verification using LexisNexis, Initium, and other platforms, ensuring the integrity of fundraising-related operations.
- Utilized Salesforce to deliver data services across the university, overseeing a user-facing ticketing system that provided top-tier customer service to various schools and departments.
- Collaborated with systems engineers, fundraisers, gift officers, and prospect development teams to streamline data pipeline processes, thereby boosting fundraising operations and overall efficiency.

Project(s)

Lead Software Engineer

University Shuttle Bus App

Montclair, NJ

01/23 – 05/23

- Spearheaded the development of a secure and efficient full-stack web app, deploying a robust LAMP stack on AWS. Implemented advanced Ubuntu security measures and PHP encryption to ensure the utmost protection of user data.
- Designed user-centric landing, login, and dashboard interfaces using HTML and Bootstrap, prioritizing accessibility and intuitive navigation to enhance user experience.
- Optimized application and database performance and maintainability by integrating the Singleton design pattern, resulting in a more consistent, reliable accessibility-enabled user interface across the website.
- Led a dynamic team effort to merge diverse features tailored for users, administrators, and bus drivers into the application, significantly boosting functionality and user engagement.