

John R. Molina

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TECHNICAL SKILLS

Languages: Python (pandas, NumPy), C/C++, PHP, Bash (Zsh), SQL (MySQL, PL/SQL, SQLite3), Java, Ruby, JavaScript (Node.js, React), Swift, HTML/CSS

Data Analysis & Visualization: Data Cleaning, Data Wrangling, Data Visualization (Matplotlib, Seaborn), Statistical Analysis, Predictive Analytics, Large Language Model Training and Evaluation

Backend Development: REST API Development (Django Rest Framework, Node.js), Microservices Architecture, Database Management (MySQL, SQLite3, PostgreSQL), Caching Strategies, API Integration, Cloud Computing (AWS, Google Cloud Platform), Docker & Containerization

Frontend Development: React, Tailwind CSS, Bootstrap, Material-UI, Responsive Web Design, JavaScript ES6+

Cloud & DevOps: Continuous Integration/Continuous Deployment (CI/CD), Git, Gitlab, Docker, AWS (EC2, S3, RDS), Google Cloud Platform, Kubernetes, Version Control

Developer Tools: PyCharm, VS Code, NeoVim, IntelliJ, Eclipse, Gunicorn

Cybersecurity: CAPTCHA Implementation, Rate Limiting, SSL/TLS Configuration, HTTPS

EXPERIENCE

AI Coding Trainer Feb. 2024 – Present
DataAnnotation Tech Remote

- Conducted training for private Large Language Models, with a focus on computer science and programming domains to enhance the efficacy of various in-house models.
- Performed domain research to train and maintain AI Model accuracy for improved programming and Computer Science related models.
- Implemented data-driven evaluation strategies to enhance the precision and reliability of model conversations.
- Participated in coding projects to train two models simultaneously across multiple programming language projects.

Development Assistant Dec. 2017 – Aug. 2022
Columbia University, Office of Alumni & Development Data Management Group New York, NY

- Managed and conducted data integrity efforts by performing data corrections using an Oracle database with PL/SQL, Excel, and Python to create a pipeline of fundraising data.
- Reduced the unverified record population from 15% to 4%, ensuring accurate and reliable fundraising data.
- Helped exceed fundraising targets of \$4 billion and \$5 billion year over year through strategic data engineering, resulting in deeper donor relationships and 106% more engaged alumni over previous years.
- Spearheaded data-driven portfolio and philanthropic data verification and analysis projects using LexisNexis, Initium, and Salesforce.
- Utilized Salesforce to deliver comprehensive data management services across the university through a user-facing ticketing system, providing top-tier customer service.
- Collaborated closely with systems engineers, fundraisers, gift officers, and development teams to optimize data pipeline processes to enhance fundraising operations and data efficacy.

PROJECTS

www.johndev.io | *Git, Django, JavaScript, React, SQLite3, Ubuntu Droplet* January 2024 – Present

- Designed, developed and currently maintain a Django web app for my software engineering portfolio and blog.
- Initially prototyped in React, converted codebase to Django in order to meet feature deadlines.
- Relational database and Django Rest Framework API implemented to store and display website content.
- Frontend themes along with custom data manipulation tooling written in Tailwind CSS and JavaScript.
- Developed a REST API using Django Rest Framework and SQLite3. Data manipulation tooling in JavaScript.
- Implemented CAPTCHA, rate limiting, among other cybersecurity countermeasures in production.

EDUCATION

Montclair State University Montclair, NJ
Bachelor of Science in Computer Science January 2024

Hudson County Community College Jersey City, NJ
Associate of Science in Computer Science May 2016