John R. Molina

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Full-Stack Developer | Python, React, & PostgreSQL

A results-oriented Full-Stack Developer with a recent Computer Science degree and extensive experience engineering applications in complex, data-intensive environments. Highly proficient in building web-based applications using Python (Flask, FastAPI) and React (Next.js), with deep, hands-on experience in PostgreSQL database management and containerization with Docker/Podman. A collaborative problem-solver with a strong background in designing scalable services and integrating with modern APIs like GraphQL.

Core Competencies

- **Technical Skills:** Python, SQL, Salesforce, Power BI, Git & Version Control, Advanced Excel
- **Backend:** Core Python, Django, Flask, FastAPI, GraphQL, Microservices Architecture, PostgreSQL, SQL
- **Frontend:** React, Next.js, Remix, JavaScript, HTML, CSS, MUI, Tailwind CSS
- **DevOps & Infrastructure:** Podman, Docker, Kubernetes, Ansible, Shell Scripting, CI/CD (GitHub Actions), Cloud Concepts (AWS), Git
- **Professional Skills:** Team Collaboration, Strategic Problem-Solving, Analytical Skills, Code Quality & Testing

Professional Experience

Development Assistant, Data Management Group | Columbia University | 2017 – 2022

- Served as a key technical resource for enforcing data governance policies across a complex system of over 5 million records, ensuring adherence to structured institutional processes.
- Improved data reliability by 99% by identifying process inefficiencies, troubleshooting errors, and meticulously tracking and organizing documentation for data validation.
- Supported a Salesforce ticketing system, collaborating with a diverse team of stakeholders to resolve inquiries and ensure all deadlines were met in a fast-paced environment.
- Translated business requirements into technical reports and dashboards in Power BI, assisting teams with data-driven decision-making.

Donor & Database Relations Associate | Parkinson's Foundation | 2016 – 2017

- Administered Raiser's Edge 7 and Athena databases, implementing data quality control measures and supporting all data import/export functions in compliance with internal policies.

Technical Projects

Full-Stack Portfolio Platform: Architected and deployed a data-driven full-stack Django application, designing a PostgreSQL database schema and implementing secure RESTful APIs for efficient data retrieval. Leveraged React for building the front-end and configured a full CI/CD pipeline via GitLab to manage deployment.

Client/Server Chat System: Engineered a robust, multithreaded chat application using Linux sockets/TCP/IP, demonstrating deep knowledge of systems programming, persistent connections, and secure data transmission.

Economic Impact of Global Conflicts (Data Science Project): Conducted a full-cycle data science project, which included an in-depth analysis of the Cybersecurity sector, identifying performance trends and key players in the industry by leveraging data from Bloomberg and The World Bank.

Education

Bachelor of Science (B.S.) in Computer Science | Montclair State University, Montclair, NJ