

# Michael Salvatore

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## Skills

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**Languages / Technologies:** Python, JavaScript, TypeScript, SQL, PostgreSQL, MongoDB, HTML, CSS

**Frameworks / Libraries:** React, Flask, Django, Pandas, Pytest, SQLAlchemy, Sass, Tailwind

**Tools:** Docker, Firebase, Vite, Git, GitHub, Bitbucket, Bash, Jira, VS Code, FlywayDB, Tableau, Power BI

## Work Experience

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**Software Engineer, VP**  
**Software Engineer, AVP**

**MUFG**  
**MUFG**

New York City

**May 2022 – Sep 2023**  
**July 2019 – May 2022**

- Designed and developed microservices within an automated business intelligence data platform, delivering data visualization insights for a half-billion-dollar technology transformation project.
- Spearheaded Workday consumer service development, integrating HR data for sophisticated visualization of organizational structures and project progress.
- Optimized data fetching algorithm, leveraging strategic API calls to achieve a 10x processing speed boost by selectively querying updated project entities.
- Engineered advanced database views, incorporating common table expressions, window functions, and sub-queries to surpass the native capabilities of BI reporting tools for enhanced data analysis.
- Refactored microservices using SQLAlchemy ORM for heightened data modeling, accelerated development, and fortified testability, maintainability, and security. Attained a robust 70%+ Pytest coverage to ensure robustness across the refactored codebase.
- Orchestrated local builds and production deployments by crafting Bash scripts, instrumental in seamlessly running Docker containers, facilitating efficient push and pull operations for Docker images, and deploying containers into an on-premises Openshift cluster.
- Collaborated directly with stakeholders on high-priority feature requests, gathering requirements and feedback to iterate on impactful data visualization products tailored to their business lines.
- Facilitated onboarding, training, and mentorship of new team members, conducting paired programming sessions, code reviews, and comprehensive knowledge transfer.

## Projects

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**Devlinks**

**Website**

**GitHub**

- Developed link-sharing web app tailored for developers using TypeScript, React, Firebase, and Tailwind.
- Integrated Firebase Authentication, Firebase Storage for images, and Firestore Database for efficient user data management.
- Implemented advanced features such as drag-and-drop functionality (react-dnd), toast messages (react-toastify), and enhanced the user interface with the DaisyUI component library.

**Pro Football Metrics**

**Website**

**GitHub**

- Engineered a Django web application showcasing dynamically charted and sortable NFL data.
- Utilized Pandas, BeautifulSoup, Celery, and Redis to automate web scraping and process data.
- Hosted the web service, Celery workers, Redis, and PostgreSQL database on Render.com.

## Education & Certifications

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**Salve Regina University**, B.A. – Majors in Psychology & Business Administration, Newport RI **2016**

**New York Code + Design Academy**, Software Engineering 14-week full-time program, New York City **2018**

**Front End Libraries**, [freeCodeCamp](#) **2019**

**Azure Fundamentals**, [Microsoft](#) **2022**