

Michael Salvatore

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Skills

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

Software Engineer, VP
Software Engineer, AVP

MUFG
MUFG

May 2022 – Sep 2023
July 2019 – May 2022

New York City

- 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 to use SQLAlchemy ORM for heightened data modeling, accelerated development, and fortified testability, maintainability, and security.
- Orchestrated local builds and production deployments by crafting Bash scripts to run Docker containers, push and pull operations for Docker images, and deployment to 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

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 processing data.
- Hosted the web service, Celery workers, Redis, and PostgreSQL database on Render.com.

Education & Certifications

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**