Louis Mascari Software Engineer

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EXPERIENCE

Full Stack Software Engineer, *Songtrust* 2024 – Present

- Led end-to-end ownership of major initiatives including Business Signup Migration and Draft State epics, from technical investigation and solution design through implementation and deployment.
- Build and maintain features across a Python/Django backend and React/TypeScript/MUI frontend, including GraphQL queries/mutations, third-party API integrations, and SQL performance optimizations.
- Led the migration of the core song submission workflow from Django to React/TypeScript, drastically improving page load times and enhancing UX for one of the platform's most business-critical processes.
- Implemented multi-factor authentication (Twilio integration) and delivered additional security improvements including user enumeration prevention, enforced password rotation policies, and general hardening of authentication and API surfaces.
- Own weekly production deployments for the publishing application, managing QA coordination, branch health, go/no-go decisions, and post-deployment monitoring via Sentry and Datadog.
- Partner closely with Product, Design, Client Services, and Copyright teams to deliver high-impact features, investigate production issues, and improve platform stability.
- Write and maintain tests using Django's test framework, Cypress, Jest, and Vitest.
- Contribute to CI/CD workflows using CircleCI and support cloud infrastructure hosted on AWS.

Co-creator, Software Engineer, *MIMIC* 2024

MIMIC is an open-source session replay framework simplifying recording and replaying user sessions to enhance web application debugging.

- Authored an in-depth technical case study at mimic-replay.com/#case-study .
- Led development of the session capture script to record and forward session data (DOM mutations, user interactions, network requests, console logs, and errors).
- Built a Python CLI installer for dynamic generation and injection of the capture script into user applications.
- Designed a multi-tier database architecture with PostgreSQL (session metadata), Redis (active session data), and AWS S3 (archival storage).
- Developed an Express server to manage API communication, process incoming data, and serve the frontend.
- Architected a responsive React frontend dashboard for user session inspection and debugging.
- Implemented a Cypress test suite for end-to-end test coverage.

Open-Source Contributor, *Mozilla* 2024

- Contributed patches to the Firefox desktop platform, resolving bugs, writing unit tests with Mochitest, improving feature rollout stability, and enhancing developer-facing documentation.

Software Engineer, *Side Projects* 2022 – 2024

- Request-Neko: A webhook request inspection and debugging tool for developers testing API integrations, featuring real-time request capture and database-backed session history (React, Node.js/Express, MongoDB, PostgreSQL, Nginx).
- Supervisory Tracker: A practice management application for physical therapists to track patient reevaluation schedules and assistant supervisory compliance requirements (Ruby, Sinatra, ERB, PostgreSQL).

SKILLS

Languages & Frameworks

Python, JavaScript, TypeScript, Ruby, Django, React, Node.js, Express, Sinatra, GraphQL, REST, SQL, HTML/CSS, Tailwind CSS, MUI, Bash

Tools & Platforms

AWS, Docker, Git/GitHub, CircleCI, PostgreSQL, MongoDB, Redis, S3, Nginx, Twilio, Sentry, Datadog, Segment, HubSpot, Google Analytics, Jira, Confluence, Cypress, Jest, Vitest, unittest

EDUCATION

Bachelor of Science, Computer Science, *Western Governors University* 2025

Software Engineering & Full-Stack Web Development, *Launch School* 2022 – 2024

Doctor of Physical Therapy, *Emory & Henry University* 2016 – 2019

Bachelor of Science, Kinesiology, *Pennsylvania State University* 2011 – 2015