Louis Mascari — Software Engineer

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💼 EXPERIENCE

Full Stack Software Engineer, *Songtrust* ⧉ — 2024 – Present

- 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 across the stack, integrated with Twilio, to strengthen platform security for both clients and administrators.
- Delivered additional security improvements including user enumeration prevention, enforced password rotation policies, and general hardening of authentication and API surfaces.
- Collaborate within an agile team, working closely with Product and Design to deliver user-facing features and iterate on feedback.
- 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.
- Manage weekly Dependabot updates across multiple repositories, ensuring prompt resolution of dependency vulnerabilities and minimizing technical debt.
- Support internal teams, including Client Services and Business Operations, by extending integrations with Google Analytics, Segment, and HubSpot to surface actionable product data.
- Monitor Sentry and Datadog alerts, triaging incidents and escalating issues to maintain system reliability.

Creator, Software Engineer, *MIMIC* ⧉ — 2024

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

- 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).
- 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.
- Used Kanban agile methodology for collaboration and workflow.
- Authored an in-depth technical case study: mimic-replay.com/#case-study ⧉

Open-Source Contributor, *Mozilla* — 2024

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

Software Engineer, *Side Projects* — 2022 – 2024

- Request-Neko: A database-backed webhook request inspection and debugging application (React, Node.js/Express, MongoDB, PostgreSQL, Nginx, deployed to DigitalOcean Droplet)
- Supervisory Tracker: A CRUD application for physical therapists to streamline management of patient reevaluation and assistant supervisory requirements (Ruby, Sinatra, ERB, PostgreSQL)

🧠 SKILLS

Languages & Frameworks
Python, JavaScript, TypeScript, Ruby, Django, React, Node.js, Express, Sinatra, GraphQL, REST, SQL, HTML/CSS, Bash

Tools & Platforms
AWS, Docker, Git/GitHub, CircleCI, PostgreSQL, MongoDB, Redis, S3, Nginx, Sentry, Datadog, Jira, Confluence, Linux, MacOS, unittest, Cypress, Jest, Vitest

🎓 EDUCATION

Bachelor of Science, Computer Science, *Western Governors University* — Expected 2026

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