

# Louis Mascari


Software Engineer

✉ [LouisMascari@gmail.com](mailto:LouisMascari@gmail.com)   [Louis-Mascari.com](https://Louis-Mascari.com)   [Louis-Mascari](https://github.com/Louis-Mascari)   [Louis-Mascari](https://www.linkedin.com/in/Louis-Mascari)   [Knoxville, TN](#)

## EXPERIENCE

### **Creator, Software Engineer, MIMIC** 2024 – Present

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 which records and forwards session data including DOM mutations, user interactions, network requests, console logs and errors.
- Built a Python CLI installer for dynamic generation and injection of session capture script into user applications.
- Designed a multi-tiered database architecture utilizing PostgreSQL for session and project metadata, Redis for active session event data and Amazon S3 for completed session event data archival.
- Developed an Express server responsible for managing API communications with instrumented applications, processing and storing received data and retrieving and transforming data for the frontend dashboard.
- Architected a responsive React frontend with intuitive navigation and error identifying functionality.
- Deployed MIMIC's infrastructure to an AWS EC2 instance to enable scalability and reliability.
- Implemented Cypress test suite to facilitate end-to-end test-driven development.
- Utilized Kanban Agile methodology enhancing collaboration and workflow efficiency.
- Authored an in-depth technical case study: [readable at `mimic-replay.com/#case-study`](https://mimic-replay.com/#case-study) .

### **Open-Source Contributor, Mozilla** 2024 – Present

- Contributed to open-source codebase landing patches across various aspects of the Firefox desktop platform.
- Refactored internal documentation to enhance clarity and accuracy, leading to better developer onboarding.
- Resolved bugs related to browser feature experiments and rollouts, contributing to more stable releases.
- Developed unit tests using Mochitest to ensure code quality and prevent regressions.

### **Software Engineer, Open-Source Projects** 2022 – 2024

Developed various personal and open-source web applications including:

- 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)

### **Physical Therapist, Multiple Companies** 2019 – 2023

- Evaluated and managed complex patient cases while supervising multiple physical therapist assistants and collaborating daily with an interdisciplinary team to ensure optimal patient outcomes.
- Swiftly adapted to diverse settings by regularly relocating to underserved clinics and adopting full caseloads upon arrival for continuity of care.

### **IT Department Support, Hershey High School** 2009 – 2011

- Managed helpdesk operations providing hardware and software support.

## SKILLS

#### **Back-end**

Node.js, Ruby, Golang, Python, PostgreSQL, MongoDB, MinIO, S3, Redis, REST APIs, Express, Sinatra, Minitest, Jest, Cypress

#### **Front-end**

JavaScript, TypeScript, React, jQuery, Handlebars, HTML/CSS

#### **Other**

AWS, Docker, DigitalOcean, Git/GitHub, Nginx, Linux, Bash, HTTP, WebSockets, Object-oriented programming, Postman

## EDUCATION

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

Multi-year, mastery-based software engineering curriculum.

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

3.9 GPA

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