

# Louis Mascari

Software Engineer

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## PROFILE

I'm a full-stack software engineer skilled in JavaScript, TypeScript, Ruby, Golang and Python based in Knoxville, TN. My background as a physical therapist cultivated a passion for complex problem solving within collaborative environments—a skill that has significantly deepened in my software engineering career. Recently, I built MIMIC, an open-source session replay framework.

## 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](https://mimic-replay.com) [↗](#).

### 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.

## 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