

# MARK SAMUEL NYON

Fostering Skills Across Industriesmsnyon@hey.com | 347.560.8639 | Albany NY 12209

## Senior Developer • Instructor/Mentor

Full-Stack Web Application Developer & SaaS/PaaS Software Architect with years of software development. Has a strong history of partnering with organizations to recruit, train, and manage talented coders from various backgrounds

## EXPERIENCE

### CONSULTANT 9.2024 – Present

Yourgrenadines.com (Startup)

- **E-commerce Implementation:** Successfully integrated e-commerce solutions across multiple sites within the YourGrenadines.com network, including a Medical Elective Website and a Shuttle service, utilizing WordPress, Gravity Forms, and Stripe.
- **Unified Travel Platform:** Spearheaded the requirements gathering and discovery phase for a unified travel platform, laying the groundwork for future development.
- **Knowledge Management:** Designed and implemented a comprehensive knowledge management system for several companies using Notion, enhancing organizational efficiency.

### CONSULTANT 11.2024 – Present

Nicklpass (Startup)

- **Licensing Model Development:** Conducted an in-depth discovery for implementing a per-use licensing model on a Platform-As-A-Service (PAAS), proposing a scalable infrastructure solution leveraging Rails as a backend API and NodeJS for the front end.
- **Database Optimization:** Analyzed and resolved performance issues with a Postgres database view by optimizing join queries, implementing parallel processing, and outlining a strategic migration plan to a model-based approach.
- **Customer Service Support:** Developed insightful reports for the customer service department using SQL and Trevor.io, enhancing sales call effectiveness and customer issue resolution.

### CONSULTANT 11.2023 – 2.2024

AIXR (Startup)

- **E-commerce Optimization:** Rescued and optimized a malfunctioning e-commerce platform by diagnosing and resolving issues within the Stripe, Strapi, and Next JS stack.
- **User Experience Enhancement:** Streamlined the e-commerce implementation, enhancing user experience and increasing conversion rates.
- **Automated Testing Frameworks:** Spearheaded the introduction of comprehensive automated testing frameworks for NextJS and NodeJS servers, significantly reducing regression errors and enhancing overall code quality.
- **AWS Infrastructure Scaling:** Architected and scaled AWS infrastructure from a single instance to two autoscaling groups, ensuring high availability and scalability of critical services.

### CONSULTANT 04.2023 – 11.2023

FanDaily (Startup)

- **Agile SDLC Implementation:** Introduced modern SDLC Agile practices to a proof of concept on a journey towards an MVP using Ruby on Rails 7.0 and Vue 2.x.
- **Sports Data Agent Development:** Engineered a sports data fetching agent in Ruby, meticulously designed to procure player data and statistics across four major sports leagues.
- **Data Retrieval Automation:** Automated the data retrieval process, empowering teams with timely and accurate insights, ultimately facilitating informed decision-making and strategic planning.

## ADVOCACY

### QueerGlobal Since 2020

Coached engineers developing React UI and making microservices available in Go, Ruby, and other languages.

Performed code reviews, added to README files, simplified pull requests, and championed use of open-source practices.

Provided DNS/Network solutions for front-end deployment, including Cloudflare, CloudFront, and Amazon S3.

### EBWiki Since 2015

Built Rails app aimed at bringing awareness to violence against POC.

Created mapping solution and data visualization using Redis and Google Maps.

Mentored developers starting in tech careers.

### HackHarlem 2015-2017

Created a community-building hackathon in partnership with Harlem Business Alliance.

Designed curricula to teach underserved communities the basics of engineering.

## MENTORING

### Thinkful 2013-2018

Provided 1:1 mentoring in Rails, JavaScript, Node, angular, Front-End Web Development, and other technologies.

Contributed to ongoing course updates, namely in Rails and Node.

Moderated Slack channel focused on pulling BIPOC engineers into Tech careers.

- **API Performance Optimization:** Improved API endpoint performance on a Rails server using Redis for caching, achieving an 80% improvement.
- **Content Generation Integration:** Integrated ChatGPT with player statistics to generate content for *FanDaily* newsletter and website.

## SENIOR SOFTWARE ENGINEER 09.2018 – 02.2023

2U EdX (90 thousand users)

- **Engineering Team Leadership:** Led engineering teams on Grading & Assignment Services development projects for this learning platform serving 75,000 people, executing on aggressive timelines to reduce technical debt while adding value to the core grade book app.
- **Zoom Integration:** Implemented features for syncing Zoom management used in 2U's Learning Management System, which served over 60 college and university programs, using Rails, Learning Tools Interoperability, NodeJS, Amazon Lambdas, SQS, and SES.
- **Code Review and Collaboration:** Reviewed code in Rails, Node, Angular, and Python as part of a collaborative software development process leveraging pair programming and retrospectives.
- **Performance Enhancement:** Improved the performance of sections of the administrative application for the Learning Management System by using Redis for caching and Rails pagination, restoring failing admin functionality and improving page load times by 50 percent.
- **Documentation and Knowledge Management:** Enhanced documentation, tools, and institutional knowledge used to facilitate resource allocation and proposal development for new contracts.

## SENIOR SOFTWARE ENGINEER 02.2016 – 02.2017

Publicis Groupe (\$10B Ad & PR Company)

- **Elasticsearch Server Upgrade:** Upgraded Elasticsearch servers used in conjunction with RUN ads' CRM product (The Portal), creating and configuring indexable models using the Chewy library.
- **Geo-Targeting Implementation:** Implemented zip-code level ad-targeting using geo data from gadm, importing and modifying it to create GEOJSON files imported into MongoDB.
- **Multi-Currency Ad Campaigns:** Developed system capabilities allowing portal users to create ad campaigns in 23 currencies with up-to-date exchange rates.

## ENGINEERING SERVICES TEAM LEAD 10.2015 – 01.2016

Miner Labs (E-Commerce Infrastructure for Simon Property Management)

- Managed product development for microservice-based ecommerce architecture built in Node.js with MongoDB as a data store on AWS.
- Designed product roadmap with milestones for improvements such as production-level logging, continuous integration, and error reporting using Rollbar – leading to drastic improvement in response time to incidents.
- Introduced automated unit testing via Mocha, Sinon, and ExpectJS, as well as integration testing using Supertest.
- Guided developers in leveraging best practices in code mentoring and code reviews.

## EDUCATION

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TUFTS UNIVERSITY

**Bachelor of Science in Clinical Psychology**

Medford, MA