MARK SAMUEL NYON

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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

TEACHING EXPERIENCE

MENTOR 9.2013 – 10.2018
Thinkful (MOOC)

- **Student Mentor:** Supported and set students up for success in multiple courses, including HTML/JS/CSS for both full and part-time positions for remote courses.
- **Teaching Assistant:** Held office hours in person & virtually. Served as first line of support for questions about the curriculum or technology in general.
- **Curriculum Development**: Collaborated with other tutors in a team on various aspects of the curriculum, updating sections and techniques as technology evolves.

INSTRUCTOR 92017 – 12.2017
Disrupt Harlem (Coding Bootcamp)

- **Teacher:** Setting up a coding bootcamp teaching HTML, JavaScript, and CSS to students in Harlem, Queens, and the Bronx
- **Curriculum Development**: Collaborated with a teaching assistant to prepare.materials, teach class, hold office hours, and mentor 13 students who learned how to create a website.

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.

VALUES

Speed & Efficiency
Flexible Architecture
Collaborative Engineering
Diversity & Inclusion (DEI)
Clear Communication

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.
- **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)

- **Data Retrieval Automation**: Automated the data retrieval process, empowering teams with timely and accurate insights, ultimately facilitating informed decision-making and strategic planning.
- **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%.
- **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 GEOGJSON 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.

E D U C A T I O N

TUFTS UNIVERSITY
Bachelor of Science in Clinical Psychology
Medford, MA