

Nick Rodriguez

Software Engineer, Data Analyst

Full-stack developer specializing in the integration of AI into production workflows. Experienced in architecting and deploying data-driven web and mobile applications, automating processes with AI, and applying statistical and analytical methods to improve system efficiency and user experience.

Programmer and DevOps skills: JavaScript, React, Python, Kivy, Swift, HTML/CSS, SQL, MySQL, MongoDB, AWS, Linux Server, Restful API, Host Web Applications, GitHub, HuggingFace, Langflow

Video and image editing skills: Shotcut, Flixier, iMovie, Krita

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Projects

News Nexus

<https://news-nexus.kineticmetrics.com/>

News Nexus — A suite of applications featuring a web-based user interface connected through an API to a centralized database. The system integrates JavaScript and Python microservices that run Hugging Face models to analyze, categorize, and track news articles related to hazardous commercial products. Technologies: Technologies used: JavaScript, restful API, SQLite database, HuggingFace, Python.

Kyber Vision

<https://kybervision.eu/>

Kyber vision is a React Native mobile application for Kyber Vision, a platform providing the volleyball community with advanced training and statistics tools. The app enables players, trainers, and supporters to access videos, record actions, and analyze performance in real-time. It is supported by an Express.js API, ensuring seamless data management and interaction.

Technologies: JavaScript, React Native, ExpressJS, SQLite, Expo Go, Github.

Expo Go: [Demo Version 0.6.1](#)

Open Mindset (open source project)

<https://github.com/amwebexpert/poc-mobile-python>

Lead the conversion of 'Open Mindset', a Python-based multi-platform application, into Xcode. Actively contributed to codebase enhancements and bug fixes, leading to successful pull requests; played a pivotal role in the deployment process for the Apple App Store. Technologies: Python, Xcode, Github, kivy-ios toolchain.

Apple App Store: [open mindset](#)

What-Sticks

<https://what-sticks.com/>

Personal health and wellness data storage platform with statistical feedback to measure user tendencies. Technologies: Swift, Python, HTML/CSS, restful API, and MySQL database.

Apple App Store: [What Sticks](#)

Work Experience

Freelance – Software Engineer

2020-Present

Designed, developed, and deployed mobile and web applications from concept to production, including architecting and integrating AI-driven workflows that enhanced automation, analytics, and overall system performance.

US Department of Navy – Economist

2012 – 2020

Developed indices used Navy wide to estimate cost growth and ultimately used in US Federal budget.

ICF International – Economist

2009-2012

Forecasted electricity markets using ICF International's proprietary linear program model of US electricity markets.

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| <i>HDR – Economist</i> | 2007-2008 |
| Modeled cost and risk of public infrastructure projects. | |
| <i>US Department of Energy (EIA) Economist</i> | 2005-2007 |
| Assisted data collection of electricity retail sales. Worked on special projects analyzing the impact of "deregulation" of US wholesale and retail electricity markets. | |
| Education | |
| La Capsule JavaScript Full-Stack Web Developer Bootcamp (Paris, France) | 2024 |
| BA and MA Economics George Mason University (Fairfax, VA) | 1999 - 2006 |