

Nicholas Gutierrez

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EDUCATION

Farmingdale State College

Farmingdale, NY

B.S. in Computer Science, Magna Cum Laude, GPA: 3.83

Aug 2024

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management, AI and Machine Learning, Operating Systems, Secure Programming

EXPERIENCE

Software Engineer

Oct 2024 - Present

DMW&H

Fairfield, NJ

- Transformed a business-critical legacy Visual Basic desktop application into a scalable web app using .NET Core microservices and React, implementing efficient caching strategies and optimized data access patterns that reduced database response times by 65%.
- Refactored 20+ SQL stored procedures from a legacy Visual Basic application into .NET services, implementing proper separation of concerns and enabling unit testing coverage of 85% for critical business logic that was previously untested.
- Collaborated with clients on-site to install, test, and troubleshoot the new software, ensuring seamless integration with warehouse operations that manage up to 20,000 cases a day, resulting in improved system reliability and customer satisfaction

Software Engineer Intern

Feb 2024 – Sep 2024

BeeEnrolled

Remote

- Contributed to full-stack development of an E-learning platform utilizing Vue, Laravel, and MySQL, adhering to the Model-View-Controller (MVC) design pattern best practices.
- Improved social media outreach by developing dynamically generated Open Graph meta tags, providing a visually appealing and contextually accurate view of each URL, leading to a 73% increase in site traffic.
- Achieved a 20% decrease in average page load time for the instructor dashboard by developing an API that enables conditional rendering of Vue components pertaining to onboarding completion.

PROJECTS

Oyster | *TypeScript, React, Remix, Node.js, Redis*

Open-source Contributor

- Implemented an administrative feature allowing admins to edit and moderate resource content posted by all users, protecting content quality and accuracy while maintaining user permissions.
- Developed a streamlined reward system integrating with the Goody API, enabling administrators to efficiently distribute gift cards to top-performing members through a user-friendly interface.

AI PDF Analyzer | *TypeScript, Next.js, AWS S3, PostgreSQL, Pinecone*

Sole Contributor

- Engineered a fullstack webapp focused on users uploading PDF documents to an S3 bucket which are scanned into vector embeddings and interpreted by an OpenAI model for users to chat with about the selected PDF document.
- Applied the Retrieval-Augmented Generation (RAG) technique in machine learning to convert PDF documents into vector embeddings and analyze them using vector similarity for AI-driven interactions.

Elevate | *Node.js, React, Redux, PostgreSQL, APIs*

Student Developer

- Collaborated with a cross-functional team of 3 other students to create a fitness and dieting platform with a comprehensive set of features including workouts tracking, workout tutorials, and nutrition fact breakdowns.

TECHNICAL SKILLS

Languages: TypeScript, Java, C#, Python, PHP, Kotlin, SQL

Technologies: React, Node.js, .NET, Angular, Vue, Next.js, Laravel

Developer Tools: Git, Unix/Linux, Docker, Kubernetes, Firebase, Postman, Kafka

Testing: JUnit, Swagger, Jest