

MICHAEL HERNANDO

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Experience

Junior Software Engineer

September 2024 – Present

NJ Transit

Newark, NJ

- Collaborated with a team of software developers to design, build, and maintain internal applications supporting bus and rail operations, following industry best practices and software design principles.
- Migrated an on-prem web application to AWS using fully serverless architecture, reducing operational expenses and maintenance requirements.
- Performed data migrations from legacy systems, including data mapping, validation, and cleanup to ensure accuracy and continuity across new platforms.
- Maintained and enhanced automated test suites to improve regression coverage and code reliability.
- Implemented CI/CD pipelines across development, test, and production environments to standardize releases and minimize manual deployment errors.

Software Engineer Intern

June 2023 – May 2024

NJ Transit

Newark, NJ

- Developed a full-stack internal web application for rail operations to replace a legacy system, modernizing the technology stack and enabling company-wide access.
- Worked directly with product owners to define requirements, refine scope, and plan high-impact feature releases.
- Analyzed existing data and usage patterns to design relational database schemas using ER diagrams, improving data integrity and maintainability.

Education

New Jersey Institute of Technology

Jan. 2020 – May 2024

Bachelor of Science in Computer Science

Newark, NJ

Certifications

AWS Certified Developer – Associate (DVA-C02)

August 2025

Amazon Web Services

- Validates ability to design, develop, and deploy secure, scalable applications using core AWS services.
- Covers serverless architectures (Lambda, API Gateway), data storage patterns, and integration with managed services.
- Emphasizes CI/CD practices, application monitoring, and cost-aware design in cloud-native environments.

Microsoft Certified: Azure Fundamentals (AZ-900)

October 2024

Microsoft

- Demonstrates foundational understanding of Azure cloud concepts, core services, and global infrastructure.
- Includes knowledge of pricing models, cost management, governance, and shared responsibility in the cloud.
- Covers basic security, compliance, identity, and access management concepts within Azure.

Projects

Tempo Cards

November 2025

- Built a Notion-inspired spaced repetition flashcard app featuring a feature-rich, command-driven text editor and a clean, fully responsive UI, enabling users to create and organize study material efficiently.
- Implemented a spaced repetition algorithm with optimized scheduling to improve learning efficiency.

Spotify Music Quiz

December 2023

- Built a music trivia game using the Spotify Web API where players listen to track previews from their library, play through timed scoring rounds, and share quiz results on social media.

Technical Skills

Languages: C#, Python, JavaScript, TypeScript, SQL, HTML/CSS

Developer Tools: Git, Visual Studio, VS Code, AWS Console, Azure Portal, Postman

Technologies: .NET, ASP.NET Core, React, Node.js, Express, REST APIs, SQL Server, Serverless (AWS Lambda, API Gateway), Azure Pipelines