

Nelson Rodriguez

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Graduated: December 2023

- **Relevant Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Software Engineering, Database Systems, Object-Oriented Programming, Computer Architecture, Systems & Networks, Linear Algebra

EXPERIENCE

Civic Digital Experience Inc.

Atlanta, GA

Software Engineer — React, C#, MongoDB, Snowflake

October 2024 – July 2025 (Ceased Operations)

- Spearheaded fast-paced development team to deliver a comprehensive **Dashboard Application** for ABM Industries and **20,000+** contractors, enhancing data visibility and operational efficiency while adhering to Agile practices
- Implemented and scaled global application state management and engineered a dynamic cross-module dashboard data filtering system using **React, C#**, aligning with scalable and maintainable software development principles
- Engineered **C#** endpoints in **.NET** backend application for CRUD operations, applying **SOLID** and Clean Architecture Principles, contributing to scalable backend services, managing version control with **Azure DevOps**
- Developed **15+** custom UI components with **React, JavaScript** to improve dashboard usability and navigation, ensuring adherence to responsive design standards
- Engineered reusable React components to dynamically present data and enhance platform navigation, enabling seamless integration with backend **REST APIs** and **Distributed Systems**
- Developed over **8+** asset management pages and a scalable front-end routing system for the Civic DX Customer Portal, improving navigation efficiency and enabling seamless integration with backend services

eKlozet Designer Consignment

Atlanta, GA

Contract Software Development Intern — Swift, SQL

January 2022 – December 2022

- Spearheaded the development of an **iOS** app with an **Item-item collaborative-filtering** recommendation algorithm, and **Google Calendar API** integration for event management, enhancing user experience and engagement
- Built and integrated an **SQL** database to support CRUD operations and efficiently manage data for **10,000+** users, applying scalable software development and maintainable code practices
- Led version control and project tracking in an Agile environment using **Git, Jira**, driving continuous integration and development, deployment readiness, and on-time delivery of client-facing features.
- Achieved **2nd** place out of 30+ teams at the Fall 2022 Georgia Tech CS Junior Design Capstone Expo

PROJECTS

Ikigai — Mobile App | React Native, Firebase, LangChain, OpenAI

July 2025 - Present

- Building an AI-powered mobile application using React Native, implementing Firebase Authentication for secure user onboarding, login, and access control.
- Integrating a **GPT/LangChain**-based recommendation engine delivering AI-driven insights to guide users in discovering their life's purpose and professional trajectory, inspired by the Japanese concept of Ikigai

Nexus — Web App | React.js, Node.js/Express.js, MongoDB

June 2024 - July 2024

- Developed a full-stack blogging web application with React, Node.js, and MongoDB, featuring **RESTful APIs**, state management with Context API, and secure user authentication using bcrypt for robust access control

Running Sonification Engine | Java, Processing

June 2023 - July 2023

- Engineered a dynamic audio-based running simulator that converts real-time sensor data—such as cadence and heart rate—into actionable feedback, enhancing runner performance by **75%** based on research analysis

TECHNICAL SKILLS

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

Developer Tools: Git, Copilot/ChatGPT, MongoDB, Azure DevOps, MySQL, Docker, Kubernetes, CLI/Terminal, Jira

Frameworks/Libraries: React, Node.js/Express.js, .NET/ASP.NET, Flask, Django, MaterialUI, Tailwind

Natural Languages: English (Native), Spanish (Fluent), Japanese (Basic/Conversational)