

# 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)*

- Collaborated in a fast-paced agile team to deliver a comprehensive dashboarding application for ABM Industries and 20,000+ contractors, enhancing data visibility and operational efficiency while adhering to Agile practices
- Implemented global application state management and engineered a dynamic cross-module data filtering system using React and C#, aligning with scalable and maintainable software development principles.
- Designed and implemented C# endpoints for CRUD operations, applying SOLID and Clean Architecture principles to contribute to scalable backend services while managing version control with Azure DevOps.
- Developed over 10 custom UI components with React, JavaScript, and HTML/CSS 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.
- Built asset management views and a front-end routing system for the Civic DX Customer Portal Project, ensuring effective integration with backend services.

### eKlozet

Atlanta, GA

*Contract Software Development Intern — Swift, SQL*

*January 2022 – December 2022*

- Collaborated in the development of an iOS app with a 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 over 10,000 users, applying scalable software development and maintainable code practices.
- Collaborated in an agile environment using Git for version control and Jira for project management, ensuring continuous integration, deployment readiness, and successful delivery on client expectations.
- 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

- Designing and developing an AI-powered mobile application using React Native and Firebase Authentication, helping guide the user's life's purpose and professional trajectory through AI-driven insights and a ChatGPT/LangChain recommendation engine based on 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, L<sup>A</sup>T<sub>E</sub>X

**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)