

# Nelson Rodriguez

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

(B.S.) 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 within a fast-paced agile team to deliver a comprehensive, dashboarding application for ABM Industries and 20,000+ contractors in order to enhance data visibility and operational efficiency.
- Led the implementation of global application state management and engineered a dynamic cross-module data filtering system using React and C#.
- Engineered dashboard usability and navigation by developing 10+ custom UI components with React, JavaScript, and HTML/CSS, aligned with responsive design principles.
- Improved Civic DX platform navigation and data presentation by engineering dynamic, reusable React components that adapted to changing application state.
- Increased data visibility for ABM Industries by building asset management views and a front-end routing system for Civic DX Customer Portal Project, integrating with backend REST APIs.
- Enabled scalable backend operations for dashboarding application by creating C# endpoints for CRUD operations following SOLID and Clean Architecture Principles, deploying updates via Azure DevOps version control
- Role concluded in July 2025 due to company-wide shutdown of operations, following successful project delivery.

### eKlozet

Atlanta, GA

Contract Software Development Intern — Swift, SQL

January 2022 – December 2022

- Developed iOS app featuring collaborative-filtering algorithm for user recommendations and clean UI/UX design
- Built and integrated SQL database to support CRUD functions, efficiently handling data for 10,000+ users
- Implemented Google Calendar API synchronization for event management, improving user engagement
- Delivered on client expectations by utilizing Git for code versioning and Jira for Agile-based project management
- Won 2nd place in the Fall 2022 Georgia Tech CS Junior Design Capstone Expo out of 30+ teams

## PROJECTS

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

July 2025 - Present

- Designing and developing an AI mobile application helping users discover their life's purpose through AI-driven insights based on the Japanese concept of Ikigai.
- Implementing React Native front-end, integrating w/ Firebase Authentication for secure user login and onboarding, and building user input forms with an AI recommendation engine leveraging user inputs passions, skills, and values

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

June 2024 - July 2024

- Utilized React Hooks and Context API for state management, ensuring efficient data flow and page rendering
- Leveraged Node.js server and MongoDB to create REST API that facilitates data fetching and post operations
- Implemented secure user authentication with bcrypt algorithm for salting + hashing and MongoDB for storage

### Running Sonification Engine | Java, Processing

June 2023 - July 2023

- Developed a dynamic audio-based running simulator that transforms sensor data such as cadence, heart rate, and other physical metrics—into real-time actionable feedback/sonifications, enhancing runner performance
- Achieved 75% increase in runner performance measured by responses to engine performance in research analysis

## TECHNICAL SKILLS

**Languages:** Java, JavaScript/TypeScript, C#, Python, Swift, SQL, HTML/CSS,  $\text{\LaTeX}$

**Developer Tools:** Git, ChatGPT/Claude, 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)