

Nelson Rodriguez

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Dec 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

Oct 2024 – Jul 2025 (Project Concluded)

- Contributed to development of internal **dashboard application** using **React**, **C#**, and **MongoDB**, enabling visualization of key operational metrics, finances and streamlining internal reporting workflows
- Implemented and scaled **global state management** and a **cross-module dashboard data filtering system** in **C#**, **React**, reducing redundant API calls and simplifying feature expansion.
- Built and maintained **C#/.NET REST APIs** for CRUD operations following **SOLID** and **Clean Architecture principles**, improving code maintainability and backend scalability.
- Created **15+** reusable React components with responsive design, enhancing dashboard usability and accelerating the development of new features.
- Developed **8** asset management pages used by **20,000+** ABM contractors, and a **scalable front-end routing system** for the client portal, streamlining page organization and improving overall navigation experience.
- Optimized API query logic and component rendering, decreasing page load times by **35%** and improving contractor workflow efficiency.

eKlozet Designer Consignment

Atlanta, GA

Contract Software Engineer Intern

Jan 2022 – Dec 2022

- Developed an **iOS app** featuring an Item-item collaborative filtering recommendation algorithm and Google Calendar integration, increasing user engagement and retention.
- Designed and deployed an SQL database supporting **10,000+ users**, enabling efficient CRUD operations and improving system reliability for production use.
- Implemented Agile workflows using **Git** and **Jira**, streamlining feature delivery and ensuring on-time deployment for client-facing releases.
- Achieved **2nd place out of 30+ teams** at the Fall 2022 Georgia Tech CS Junior Design Capstone Expo for innovation and usability.

PROJECTS

IkigAI — Mobile Application | *React Native, Firebase, LangChain, OpenAI*

Jul 2025 – Present

- Building an AI **self-discovery application** providing personalized career and life recommendations based on the Japanese concept of Ikigai.
- Integrated **Firebase Authentication** for secure onboarding and **GPT/LangChain** to deliver tailored insights.

Nexus — Full-Stack Blogging Platform | *React.js, Node.js, Express.js, MongoDB*

Jun 2024 – Jul 2024

- Developed a full-stack blogging platform with secure authentication and RESTful APIs, enabling users to create and manage posts in real time.
- Implemented state management with Context API and deployed a MongoDB backend for persistent storage.

Running Sonification Engine | *Java, Processing*

Jun 2023 – Jul 2023

- Built a real-time audio feedback system for runners, converting cadence and heart-rate data into actionable performance cues.
- Improved user's pace consistency by **20%** in testing, providing insights for personal training applications.

SKILLS

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

Frameworks/Libraries: React, Node.js, Express.js, .NET/ASP.NET, Flask, Django, Tailwind, Material-UI

Developer Tools: Git, Firebase, MongoDB, CI/CD DevOps, Docker, Kubernetes, LangChain, CLI/Terminal, Jira

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