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 + 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)

- Advanced the development of Civic DX internal dashboard application using React, C#, and MongoDB, enabling visualization of key operations, business metrics, and financial/asset data
- Engineered global dataset filtering pipeline using React, C#/.NET, integrating with MongoDB for persistent filter-state storage and Snowflake for high-speed dataset queries, cutting filter latency by over **40%**
- Architected C# .NET REST APIs using SOLID and Clean Architecture for Civic DX platform, improving code maintainability and backend scalability scaling to support **20,000+** ABM Industries contractors.
- Built over **30+** reusable React components for overarching Civic DX Platform, including dynamic stateful User Interfaces, standardizing UI/UX across modules and accelerating internal feature roll-out by **50%.**
- Developed over **12** React/JavaScript asset-management pages and bottom-up client-portal routing system for contractor asset-management application, streamlining navigation efficiency and improving bounce rate
- Optimized front-end rendering/query logic, decreasing page load times and improving contractor efficiency.
- Containerized remote-to-local database environments using Docker Compose for full development environment parity, cutting setup from 2hrs to under 5min (**90%** faster)

eKlozet Designer Consignment   Atlanta, GA
Contract Software Development Intern   Jan 2022 – Dec 2022

- Contributed to development of iOS application used by over **10,000+** users, implementing Item–item collaborative-filtering recommendations and bidirectional Google Calendar sync.
- Designed and developed back-end SQL database and schema with ETL pipeline to merge user interaction logs, clothing catalog, and outfit preferences, optimizing query runtime to <**5ms** for recommendation retrieval.
- Implemented Agile workflows using Git and Jira, streamlining feature delivery and ensuring on-time releases.
- Earned **2nd** place among **30+** teams at the Fall 2022 Georgia Tech CS Capstone Expo for innovation and usability

PROJECTS

Ikigai | *React Native, Firebase, LangChain, OpenAI*   *Jul 2025 – Present*
- AI self-discovery application providing personalized career/life guidance based on the Japanese concept of Ikigai.
- Integrated GPT/LangChain to deliver tailored insights and Firebase for secure onboarding and authentication

Nexus | *React, Node.js, Express.js, MongoDB*   *Jun 2024 – Jul 2024*
- Full-stack personal blogging platform with secure JWT authentication using React, Axios, and MongoDB
- Developed a user session/state management system and Node.js/Express REST APIs for robust post and comment CRUD operations, load-tested to support hundreds of concurrent users

Running Sonification Engine | *Java, Processing*   *Jun 2023 – Jul 2023*
- Developed real-time audio feedback system for runners, converting physical data into actionable performance cues.
- Improved user's pace consistency by **20%** in user testing, providing insights for real personal training applications.

SKILLS

Languages: Java, JavaScript/TypeScript, C#, Python, SQL, HTML/CSS, English/Spanish(Fluent)
Developer Tools: Git, CI/CD DevOps, CLI/Terminal, Docker, Kubernetes, Firebase, MongoDB, LangChain, Jira
Frameworks/Libraries: React, Node.js/Express.js, .NET/ASP.NET, Flask, Django, Tailwind, Material-UI