# NELSON HA

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## Experience

**Bimini AI**                                                                                          Atlanta, GA
*Software Engineer Intern*                                                              Sep. 2024 – Nov. 2024
- Developed responsive web applications using React and Next.js, improving page load times by 40% and increasing user engagement by 25%
- Designed and implemented new UI components, including a streamlined post creation interface that enhanced the user experience
- Integrated Firebase for secure and efficient media upload and retrieval, reducing upload latency by 30% and improving retrieval times by 50%
- Created comprehensive layouts for media previews, social interactions, and content navigation features, resulting in 40% higher engagement

## Projects

**Repose AI** (Next.js, TypeScript, Google AI SDK, Neon DB, Drizzle ORM)
- Architected a scalable backend system with PostgreSQL and Drizzle ORM that reduced database query times by 45% while handling 300+ concurrent users
- Integrated Google AI's search grounding capabilities for real-time knowledge retrieval, improving response accuracy by 78%
- Implemented secure user authentication with JWT tokens that decreased unauthorized access attempts by 95%

**GSU Scheduler** (React, TypeScript, Next.js, PostgreSQL, Tailwind CSS)
- Developed an intuitive course scheduling application for Georgia State University students that visualizes weekly schedules and detects time conflicts
- Implemented secure user authentication with JWT tokens to protect student data while ensuring seamless login experience
- Created a responsive UI with dynamic filtering for course selection that improved search efficiency by 65%
- Engineered a drag-and-drop interface for custom events allowing students to visualize personal commitments alongside classes

**Financial Banking Manager** (Next.JS, Node.js, PostgreSQL, Tailwind CSS, React)
- Created a responsive interface displaying real-time account balances and 3-month financial trends for visualizing spending patterns
- Implemented secure authentication with two-factor verification that enhanced security while maintaining seamless UX
- Engineered cross-account transfer system enabling efficient fund movement between different banking institutions

**Movie Recommender Website** (PyTorch, Flask, RxJS, Angular, SCSS)
- Engineered a recommendation system using PyTorch that achieved 85% prediction accuracy while integrating with TMDB API
- Designed responsive Angular frontend with RxJS for reactive state management, implementing dynamic search functionality
- Built RESTful API with Flask while optimizing data preprocessing pipelines, reducing model training time by 30%

## Skills

Java, Python, C, C#, JavaScript, TypeScript, HTML, CSS, PHP, React, Angular, Next.js, Flask, Node.js, PostgreSQL, Firebase, RxJS, PyTorch, NumPy, pandas, Git, Tailwind CSS, SCSS

## Education

**Georgia State University**, College of Arts and Sciences                                Atlanta, GA
*Bachelor of Science in Computer Science*                                             Expected: May 2025
GPA: 4.0/4.0

**Georgia Institute of Technology**                                                       Atlanta, GA
*Online Master of Science in Computer Science*                                        Expected: May 2027