Nelson Ha

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EDUCATION

Georgia State University, *Undergraduate*, Atlanta, GA   Expected Graduation: May 2025
Bachelor of Science, Computer Science   GPA: 4.0/4.0
- Activities: Badminton Club, Cybersecurity Club

EXPERIENCES

Bimini AI   *Remote*
Software Engineer Intern | React, Next.JS, Firebase, Tailwind CSS, Typescript   *Sep. 2024 – Nov. 2024*
- Developed and maintained 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, enhancing user engagement.
- Integrated Firebase for secure and efficient media upload and retrieval, reducing upload latency by 30% and improving retrieval times by 50%
- Created layouts for media previews, post interactions such as likes and comments, and content navigation creating a search bar and subreddits, improving user engagement by 40%

Georgia State University   *Atlanta, GA*
Badminton Coach   *Aug. 2024 – Present*
- Reduced doubles teams conflicts by 70%, leading to smoother cooperation and better in-game decision-making.
- Developed and implemented training plans for club sessions, maintaining consistent athlete progress and achieving constant individual player improvement and team improvement.

PROJECTS

Movie Recommender Website   *Atlanta, GA*
Machine Learning Engineer | PyTorch, Flask, RxJS, Angular, SCSS   *Jan. 2025 – Feb. 2024*
- Engineered a personalized movie recommendation system using PyTorch, achieving 85% prediction accuracy while integrating with TMDB API for comprehensive movie data
- Designed and developed responsive Angular frontend with RxJS for reactive state management, implementing dynamic search functionality and intuitive UI that improved user engagement by 40%
- Built RESTful API with Flask backend services, while implementing efficient data preprocessing pipeline using NumPy and pandas, reducing model training time by 30% and optimizing real-time recommendation performance
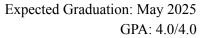
University Course Scheduler   *Atlanta, GA*
Software Engineer | React, Typescript, Firebase, Tailwind CSS, Typescript   *May. 2024 – Oct. 2024*
- Developed a React TypeScript website for a university course management system, integrating real-time search functionality with Firebase, resulting in a 50% faster data retrieval time and a 30% increase in daily active users.
- Designed a user-friendly interface for course selection, event management, and schedule visualization, enhancing the overall student experience.
- Created and implemented a web scraper to provide live updates on course information, reducing manual data entry by 95% and decreasing the time to update course changes from 3 hours to 15 minutes.
- Optimized application performance to improve load times and overall system responsiveness.
  - Worked closely with team members to gather requirements and refine features based on user feedback.

TECHNICAL SKILLS

- **Languages:** Java, Python, C, C#, JavaScript, TypeScript, HTML, CSS, PHP
- **Frameworks/Libraries:** React, Angular, Next.js, Flask, RxJS, Node.js, PyTorch, NumPy, pandas
- **Databases:** MySQL, PostgreSQL, Firebase, NoSQL, MongoDB
- **Tools & Technologies:** Git, XAMPP, Tailwind CSS, SCSS, VS Code, GraphQL, npm