Tran Dan Nhi Nguyen

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EDUCATION

Luther College, Decorah, IA   **Expected graduation:** May 2028
Bachelor of Arts in Computer Science and Statistics   **GPA: 4.00**/4.00
Relevant Coursework: Introduction to Computer Science, Algorithm and Data Structure, Web Development
Fundamentals, Data Modelling and Querying, Computer Architecture/Organization, Discrete Mathematics.

EXPERIENCE

Software Engineer Intern   June. 2024 – Nov. 2024
Rakuna — HR Tech Company, Ha Noi, Vietnam
- Collaborated with fellow interns and engineers to upgrade Rakuna's Interview application using Ruby on Rails, PostgreSQL, Docker, and HashiCorp Vault, focusing on frontend engineering and database management.
- Upgraded the frontend structure and responsiveness of the application by implementing Material UI and Bootstrap, thus promoting users' experience and engagement by 50% based on an external survey of 150 users.
- Integrated OpenAI API into the app, helping process applicants' documents faster and more securely, and built robust tests with RSpec to ensure app functionality and reliability.

Teaching Assistant   Jan. 2025 – Present
Computer Science Department at Luther College
- Facilitate weekly tutoring sessions and group meetings to support 40 students with core web development concepts, JavaScript, and course projects, boosting students' academic performance by 40% and test scores by 30%.
- Collaborate with instructors to enhance course materials and student engagement.

PROJECTS

Blog Web Application | *MongoDB, Node.js, Express.js, React.js, EJS, Axios, Bootstrap, CSS, HTML*
- Built dynamic HTML views using EJS templating for server-side rendering and implemented responsive frontend components with React.js, Bootstrap, and CSS to enhance users' experience.
- Integrated frontend and backend with Axios, while managing backend routing and middleware through Express.js.
- Utilized MongoDB for storing user-generated content, enabling efficient data retrieval and post management.

Folkify Recipe Search | *HTML, CSS, Vanilla JavaScript, REST API*
- Built a recipe search website with vanilla JavaScript to search, view, track servings, and bookmark recipes, utilizing an external Recipe API for dynamic data fetching.
- Developed a DOM updating algorithm to track user changes in real-time without reloading the webpage, enhancing user experience by ensuring smooth, dynamic interactions.
- Implemented MVC architecture to organize code, ensuring scalability and maintainability, and used npm to manage dependencies for streamlined development.

Mapty Website | *HTML, CSS, Vanilla JavaScript, REST API*
- Built an interactive mapping app to log, track, and visualize outdoor workouts like running and cycling.
- Applied Object-Oriented Programming principles to ensure a scalable and maintainable codebase.
- Utilized the Geolocation API to accurately capture and display user workout routes on a map, and integrated Chrome Local Storage to persist user data and preferences.

LEADERSHIP

Media Manager | Tech Leader   Sep. 2024 – Present
ELab — Ha Tinh's English Library
- Managed a team of 12 members to create content and design 200+ visual works for the library's webpage.
- Developed and administered Elabrary — a UI/UX Design website providing students with 500+ English learning resources and quality compiled content.
- Innovated Social Media strategies to boost library's impact by 40% and regularly trained the library's members in graphic design and web management tools.

Academic Manager   2024 – Present
The PEA Organization - Educational Organization For Ha Tinh Students
- Managed a 40-member academic team to produce 300+ educational academic posts and oversaw a media page with 8,000+ followers, recording 40% increase in students' engagement with academic pursuit.
- Sucessfully organized 6 mock entrance examinations across 5 core subjects in 2024 and 2025, engaging over 400 students and volunteers in Ha Tinh and contributing to a 60% increase in the organization's media reach.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, Python, Java, Ruby, SQL, HTML/CSS, Node.js, Express.js, React.js, Next.js, EJS.
Developer Tools: MongoDB, Git, GitHub, VS Code, Netlify, Docker, HashiCorp Vault, RSpec, Axios, REST API, Postman.