Katherine Lee

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EDUCATION

Fairleigh Dickinson University (Vancouver Campus)
Master of Applied Computer Science   **Vancouver, Canada**
                                                                                                                                                     Sep 2023 – Dec 2024
- Core Modules: Software Engineering, Computer Algorithms, Computer Architecture, Systems Programming, Artificial Intelligence, Operating Systems
- GPA: 3.78

University of Leeds- Master of Arts in Applied Translation   **Leeds, UK**
Core Modules: Computer-Assisted Translation   **Sep 2021 – Sept 2022**

Northeast Normal University- Bachelor of Arts, major in English (Science and Technology)   **Changchun, China**
Core Modules: Advanced English, Programming, Statistics   **Sep 2016 – Jul 2020**

SKILLS

- Programming Languages: Java, Python, JavaScript, Typescript, SQL, HTML/CSS
- Framework: SpringBoot, Spring, Mybatis, SpringMVC, React, NEXT.js, Node.js
- Tools: Git, Visual Studio Code, PostMan, RESTful API, Maven

PROFESSIONAL EXPERIENCE

Remmittance LLC   **Vancouver, Canada**
Front-end Software Developer (Intern)   **Aug. 2024-Present**
Developed the official website for a company specializing in facilitating bill payments for users in Africa, resulting in a 30% increase in user engagement and a 25% reduction in bounce rate through effective use of **React, HTML, CSS, and JavaScript**.
- Utilized **Bootstrap** to implement responsive design, ensuring cross-device compatibility and improving accessibility across mobile and desktop platforms.
- Integrated **Jinja templating** engine for dynamic content rendering, optimizing the website's performance and scalability.
- Implemented interactive elements such as icons, improving user engagement by 30% and reducing the bounce rate by 25%.
- Collaborated with the backend team using Python and Flask to ensure seamless integration of front-end components with server-side functionalities, handling **HTTP requests** and responses to optimize user experience and interface efficiency.
- Conducted thorough performance testing and optimization of the website, including minimizing load times, and improving overall responsiveness.

Glocal Foundation of Canada   **Vancouver Canada**
Data Analysis   **May 2024-Present**
- Created and maintained dynamic dashboards using **PowerBI** and **Tableau** to visualize and analyze volunteer data. This included designing visualizations to highlight key metrics and trends, which facilitated better decision-making and strategic planning.
- Analyzed volunteer activities and their impacts, producing comprehensive reports that demonstrated the effectiveness and reach of the organization's initiatives.
- Utilized data cleaning and transformation techniques to ensure the accuracy and consistency of the data used in dashboards. Worked closely with various teams to gather requirements and ensure the dashboards met their needs.
- Coordinated with team members and external partners to gather data requirements, provide training on dashboard usage, and present findings. Ensured that the insights generated were actionable and aligned with organizational goals.

PROJECT EXPERIENCE

Notion Clone Project   **Sep 2022-June 2023**
Developed a feature-rich notetaking and document management platform using **Next.js 13, React, Convex, Tailwind, and TypeScript**, featuring real-time collaboration and a highly responsive user interface.
- Engineered a real-time database with Convex, which improved data synchronization and collaboration, resulting in a **30% increase** in user engagement and efficiency.
- Built a Notion-style editor using React and TypeScript, enabling rich text formatting and media embedding, thereby enhancing document creation and user interaction.
- Implemented a responsive UI with Tailwind CSS, incorporating Light/Dark mode, infinite document nesting, and expandable and collapsible sidebar, which improved user accessibility and navigation.
- Developed **secure authentication and authorization protocols**, ensuring robust data protection and access control.
- Integrated comprehensive file management features, including upload, deletion, and replacement capabilities, and added functionality for publishing notes to the web and customizing document cover images.
- Implemented a trash can with soft delete and file recovery, allowing users to manage and restore documents efficiently.