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: 3.94

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

Glocal Foundation of Canada   **Vancouver Canada**
Software Developer   **May 2024-Present**

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 an 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.

Remmittance LLC   **Vancouver, Canada**
Front-end Software Developer   **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 **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.

Shiyuanqiao Company   **Shenzhen China**
Front-end Software Developer   **Sep 2022-June 2023**

Developed a full-stack blog website enabling users to create, read, update, and delete blog posts. The project utilized **React** for the front-end, **Node.js** with **Express** for the back end, and **MySQL** for the database, with **Sequelize** for ORM and robust authorization mechanisms for secure access.

- Implemented registration and login functionality using JSON Web Tokens **(JWT)** for stateless authentication, integrated Passport.js for middleware handling, and ensured password security by hashing with bcrypt.
- Created middleware to validate JWT, ensuring secure API access by verifying tokens, attaching user information to request objects, and providing appropriate error handling.
- Designed a MySQL schema to manage users, posts, and comments, defined associations such as users having many posts and likes with cascading deletes and used Sequelize for model definitions and automated migrations.
- Users can create, edit, and delete blog posts with CRUD operations implemented using Express.js routes and a rich text editor