Shayan Dhillon

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SKILLS

Languages & Frameworks: Assembly (Arm v7), C, Express.js, Django, FastAPI, HTML/CSS/SASS, Java, JavaScript, Next.js, Node.js, Python, R, ReactJS, SQL, TypeScript, VBA
Technologies: Docker, Eclipse, Excel, Firebase, Git, HuggingFace, MongoDB, MySQL, VSCode
Certifications: AWS Cloud Technology Consultant, Java Foundations Junior Associate

EDUCATION

Wilfrid Laurier University, Waterloo, Ontario   2022 - Present
Honours Bachelor of Science in Computer Science, Co-op Program (GPA: 4.0/4.0)

EXPERIENCE

City Of Toronto, Toronto, Ontario   September 2024 - December 2024
Technical Trainee
- Enhanced communication efforts by designing and updating AODA compliant web pages using ReactJS, HTML, and CSS, resulting in improved accessibility and timely updates on projects.
- Collaborated in Quality Assurance (QA) and User Acceptance Testing (UAT) within an Agile team environment to ensure system reliability and functionality during implementation stages.
- Supported back-end development by assisting with data processing tasks, including database updates and optimization for improved system performance.

Wilfrid Laurier University, Waterloo, Ontario   September 2023 - August 2024
Instructional Assistant
- Collaborated with other IAs to execute the labs for Data Structures I & II, Intro to Object-oriented Programming, and Windows App Programming, for an average attendance of 40-50 students per lab.
- Guided students of diverse backgrounds in developing problem-solving skills, aiding them in approaching and solving problems with different data structures.
- Analyzed over 300 students' code and graded their lab submissions accurately, adhering to the grading scheme and providing constructive feedback by demonstrating a detail-oriented approach and proficient debugging skills.

PROJECTS

Real-Time Translation Chat 🖵 | *Express.js, FastAPI, JavaScript, Node.js, Python, ReactJS*   January 2025
- Integrated the MBART-50 multilingual model via FastAPI, enabling automatic translation of messages in 25+ languages, significantly improving user accessibility and communication by bypassing language barriers.
- Built an Express.js backend with RESTful APIs and WebSockets, integrating MongoDB for data storage and enabling real-time message translation, allowing for seamless integration between the frontend and the ML API.
- Designed and implemented a responsive chat interface using ReactJS, ensuring cross-browser compatibility and an optimized user experience by leveraging responsive design techniques and performance tuning.

Study Motivation Web App 🖵 | *Django, HTML/CSS, Next.js, Python, ReactJS, TypeScript*   August 2024
- Led a team to develop a responsive web application aimed at improving study habits, focusing on creating a seamless user experience with efficient state management using Next.js and TypeScript.
- Implemented RESTful APIs using Python & Django to manage backend services, ensuring secure and scalable data interactions between the frontend and backend, including user authentication and data protection measures.
- Integrated a Firebase database to enable real-time data storage and synchronization, optimizing the application's data handling and retrieval processes.

Student Database Grade Application 🖵 | *SQL, VBA*   March 2023
- Developed a VBA based application, allowing for error-free data transfer from Microsoft Access databases to visualize student related data using Excel graphs and generating MS Word reports with statistical summaries.
- Used SQL to query and extract relevant information from relational databases of over 4000 data records, helping analyze and identify trends among data.
- Utilized Userforms and modular programming to design a robust and user-friendly UI for displaying selected data.