

VANSH SINGH

I'm a Software Developer specializing in building and designing exceptional digital experiences.

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EDUCATION

University of Alberta

Bachelors of Science (BSC), Computer Science

Edmonton, AB

Aug. 2021 – Current

EXPERIENCE

University of Alberta Library

Library Specialized Technical Support

Edmonton, AB

Feb. 2024 – Apr. 2024

- Provided technical support, managing team tickets, updating inventory spreadsheets, and ensuring accurate verification of workstations at the DSC and Sperber Library.
- Improved helpdesk operations through expert troubleshooting and regular maintenance updates for desktop and laptop systems.
- Managed IT asset lifecycle, including device disposal and documentation in compliance with SMS guidelines, showcasing strong organizational skills.
- Contributed to technology refresh projects, facilitating the integration of hardware and software upgrades to enhance system performance and reliability.

PROJECTS

Shop Squad

React Native, Redux Toolkit, Express JS and Stripe

- Spearheaded the development of a cutting-edge React Native application, bolstering the group-buy functionality for a dynamic startup.
- Optimized app performance and user engagement by implementing Redux for state management, leading to a more responsive and intuitive user interface.
- Fortified the platform with robust security measures, incorporating secure payment gateways(stripe) and seamless user authentication.

Weather App

React Native, Weather API and Geolocation

- Engineered a real-time mobile application using React Native, providing up-to-the-minute weather updates.
- Seamlessly integrated Weather APIs to ensure precise weather data retrieval.

To Do List Dashboard

React JS

- Developed a highly interactive and user-friendly to-do list application using React JS, enabling efficient task management and organization.
- Implemented advanced features like task categorization, deadlines, and priority tagging, allowing users to manage tasks more effectively.

Film Wizard

Python, Streamlit, Scikit, Pandas and NumPy

- Developed a movie recommendation system web application using the TMDB Movies Dataset, easing the movie-selection process experience for users.
- Implemented TF-IDF algorithms to deliver personalized movie suggestions based on user preferences and viewing history and designed and implemented a friendly GUI, ensuring seamless navigation.

QuickWit

Python, Tkinter and PyMuPDF

- Developed a feature-rich speed reading application, utilizing the Rapid Serial Visual Presentation (RSVP) technique to significantly boost reading speed and comprehension.
- Designed a user-friendly GUI for loading PDFs and text documents, allowing easy start, stop, and resume reading.

SKILLS

Languages: Python, C/C++, Java, Javascript, SQL, MongoDB, HTML/CSS, Shell

Frameworks: React/Next JS, React Native, Node JS, Express JS, Pandas, Selenium, Scikit-learn, Matplotlib, Numpy, BitLocker.

Developer Tools: Git, Linux, Google Firebase, Google Cloud Platform, SQL, MySQL, Android Studio

HONORS, AWARDS AND OTHER INTERESTS

Treasurer: University of Alberta Film Society. Managed finances and budgeting for society events and operations.

International Student Scholarship: Awarded by University of Alberta.

Hackathons: Runner Ups at the Calgary Youth Hackathon for developing a web service for seeking mental health support.

Volunteer Work: Participated in UofA Film Society, English Conversation Club and Debate Club.