

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

HIGHLIGHTS

Robust foundation in computer science concepts such as Object Oriented Programming Paradigms and proficiency in front-end and back-end development, proficient in frameworks such as React, Express, Node.js, and databases like SQL and MongoDB.

Proficient in cloud computing (Firebase, GCP), dedicated to developing scalable applications and adhering to best practices in code maintainability, optimization, and documentation.

Committed to lifelong learning in evolving tech landscapes, coupled with strong interpersonal and communication skills for effective teamwork in diverse environments.

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.
- Fortified the platform with robust security measures, incorporating secure payment gateways(stripe) and seamless user authentication.
- Elevated user engagement and satisfaction by crafting an aesthetically pleasing user interface and optimizing the overall user experience.

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.
- Implemented advanced Geolocation functionality, enabling automatic detection of the user's current location for a seamless experience.

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.
- 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.
- Actively contributed to the open-source community by developing Quick Wit and making it available for public use.

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.
- Integrated responsive design principles to ensure a seamless user experience across various devices and screen sizes.

SKILLS

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

Frameworks: React/Next JS, React Native, Node JS, Express JS, Pandas, Selenium, Numpy

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

HONORS AND AWARDS

International Student Scholarship: Awarded by University of Alberta.

Second Ranked Team: Runner Ups at the Calgary Youth Hackathon for developing a web tool for seeking mental health support.

OTHER INTERESTS

Volunteer Work: Participated in Conversation Club and Debate Club.

Reading: Enthusiastic reader of Non-fiction and Classic literature.

Technology: Keen interest in Artificial Intelligence and Machine/Deep Learning.