Aayush

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Education

Amity University	August 2024
Bachelor of Technology in Computer Science (GPA: 8.10 / 10.00)	*Gurgaon, Haryana*

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Object Oriented Programming, Operating Systems, Computer Networks, Compilers

Sachdeva Global School	March 2019
Senior Secondary Education	*New Delhi, India*

Projects

Expense Tracker | *Flutter, Google Firebase, HiveDB*

- **Flutter** application that helps users track and keep a record of their expenses.
- The application leverages **Google Firebase** for its backend, utilizing a **NoSQL database** architecture for scalable and efficient data storage.
- User authentication is securely handled through Firebase, providing seamless access control and data protection.
- Implemented sophisticated charting capabilities to deliver an in-depth visual representation of user expenses.

File Compressor | *C++, Flutter, Qt Framework*

- This application employs **Huffman Trees** to achieve efficient data compression and decompression. Developed using C++, the the implementation ensures optimal performance and computational efficiency.
- The application has been extended to mobile devices using Dart and the **Flutter framework**, providing a seamless user experience across various platforms. This cross-platform capability highlights the application's versatility and adaptability to modern computing environments.
- The application achieved an **efficiency improvement of up to 48%**, demonstrating its effectiveness in reducing data size and optimizing resource utilization. This substantial gain underscores the application's potential for real-world applications requiring data compression.

NewApp | *Dart, Flutter*

- This application is designed to make efficient API calls to fetch the latest news tailored to user interests. Leveraging the Dart programming language and **Flutter framework** ensures a responsive and engaging user experience.
- The application dynamically curates news content by analyzing user preferences to align with individual interests. This feature enhances user engagement and satisfaction by providing relevant and timely information.

Technical Skills

Languages: C, C++, Java, JavaScript, Dart, Go, SQL

Technologies: React.js, Bootstrap, Appwrite, Next.js, Node.js, Android SDK, Version Control, Google Firebase, Flutter SDK, CSS

Concepts: Data Structures and Algorithms, Compiler, Operating System, Virtual Memory, Cache Memory, API, Database Normalization, Agile Methodology, Database Management, Object-Oriented Design

Achievements

Codechef January Cookoff	Rank 91/9432
Codechef Starters 22	Rank 125/10325
Clash of Code: University Coding Challenge	Rank 1
C3: The college coding society	Co-Founder